

TV5-307UW



Specifications

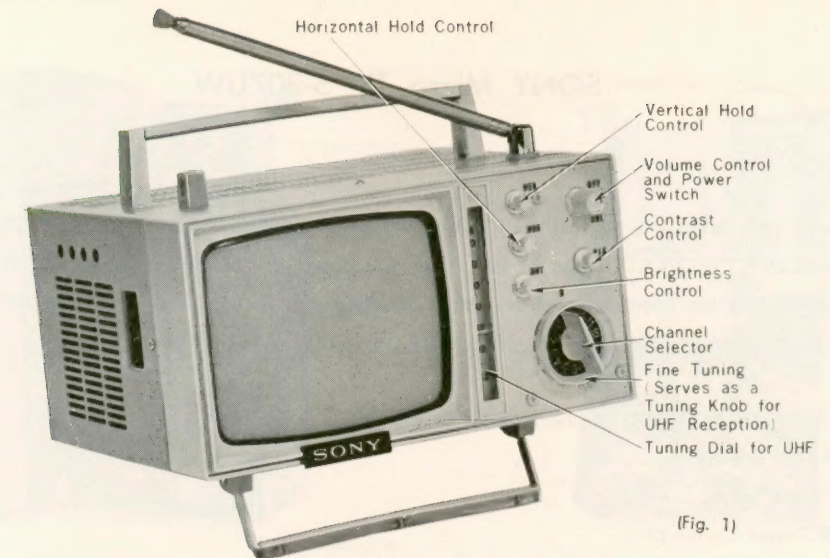
Picture Tube :	5", 70° Deflection, Aluminized Screen
Transistor :	25 (7 Silicon-including 5 Epitaxial 18 Germanium)
Diode :	19 (including 4 Selenium)
Channel Coverage :	A2—A13 in VHF Band and A14—A83 in UHF Band
Tuner :	Disc Turret Type for VHF Band and Continuous Tuning Type for UHF Band
Maximum Sensitivity :	VHF 5 μ V (10 Vpp at Picture Tube Cathode) UHF 5 μ V (10 Vpp at Picture Tube Cathode)
IF Circuit :	3 Stages with 4 Stagger Tuned Elements Video IF 26.75 Mc, Sound IF 22.25 Mc, Band Width 3.0 Mc
Resolution :	Horizontal 300 lines, Vertical 400 lines
Sound System :	4.5 Intercarrier System Power Output Stage ; OTL System, 300 mW Speaker 3", 40 Ω Voice Coil
Automatic Control :	Pulse-operated AGC, Diode AFC, (Automatic Noise Suppressor)
Power Requirements :	AC 117 V, 60 c/s, DC 12 V Battery
Power Consumption :	AC 12.4 W DC 9.2 W
Dimensions :	8-3/8" (W) \times 6-5/8" (D) \times 4-1/4" (H)
Weight :	8-1/2 lbs.
Glare Proofing :	Smoked Filter, 70% Transparency
Battery Recharge :	Built-in Recharge Switch

SONY®
SERVICING GUIDE

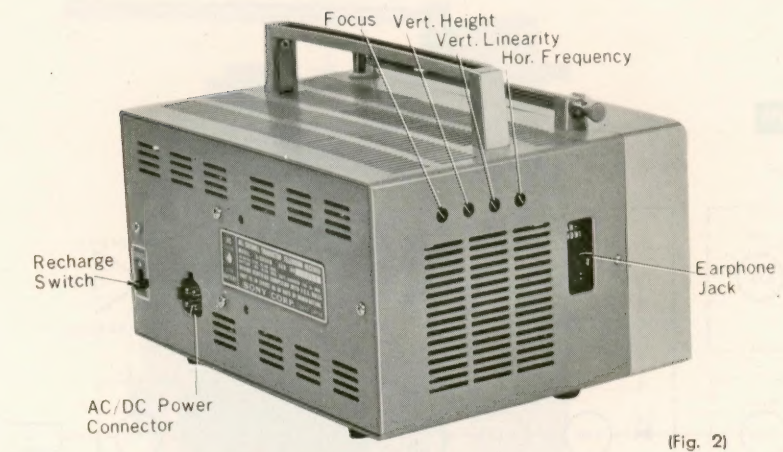
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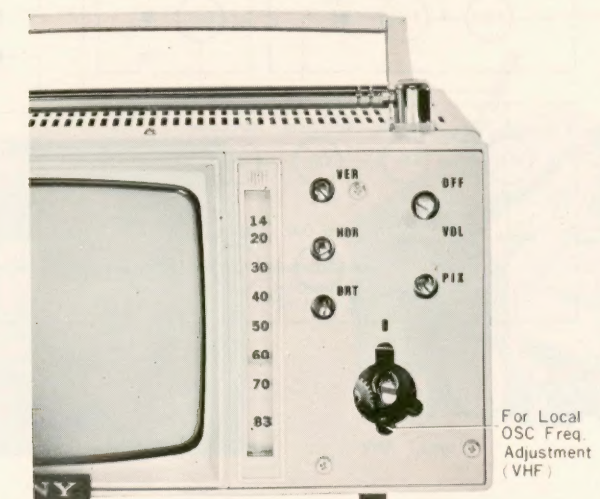
External View



(Fig. 1)



(Fig. 2)



(Fig. 3)

SONY Micro TV 5-307UW

General

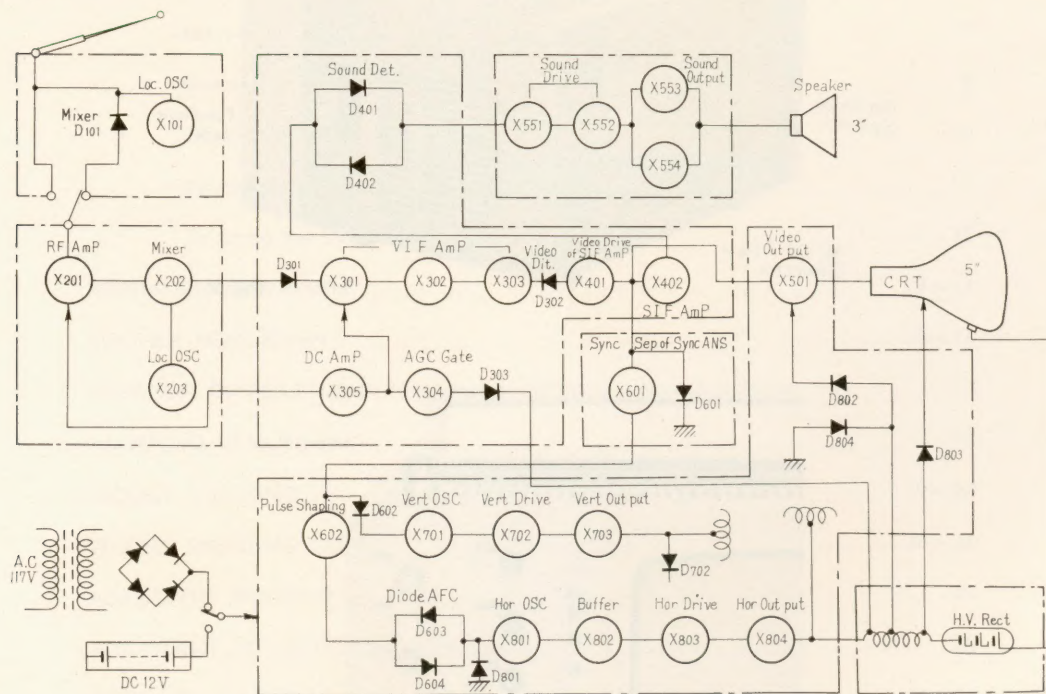
The SONY Micro TV 5-307UW is a transistor TV Receiver which can receive both VHF and UHF bands without using an external UHF Converter. Design of this model was aimed to make the size as small as possible and for this purpose great effort has been made to develop a miniature type Tuner Block. As the result, the size of the set became slightly larger in width than that of 5-303W, the VHF single band model.

FEATURES

The SONY Micro TV 5-307UW has the features as follows :

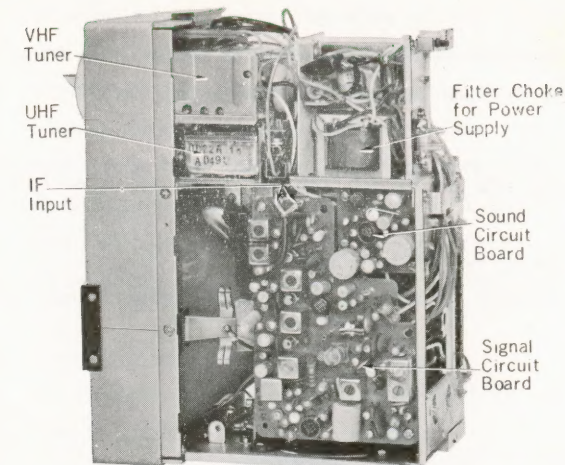
1. Small size and light weight
2. Easy Band Setting
3. Lower Power Consumption
4. Perfect Operation as a completely portable TV Set under all conditions
5. Easy Servicing

Block Diagram

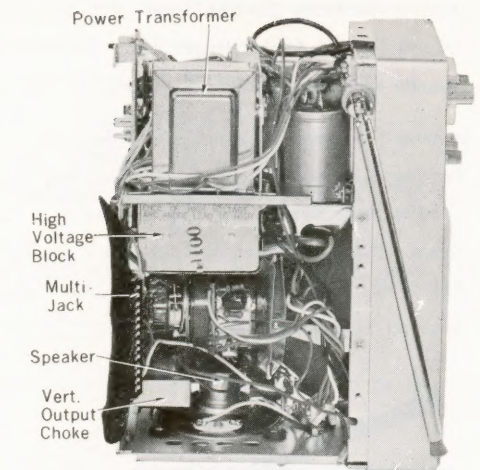


(Fig. 4)

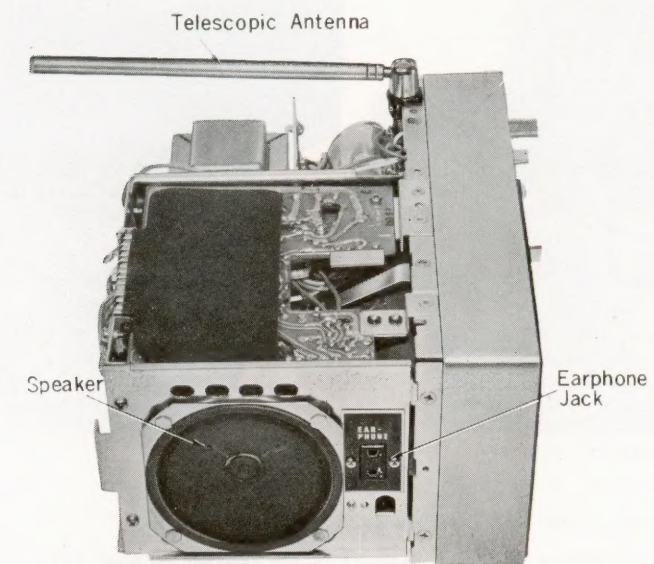
Electronic Parts Location



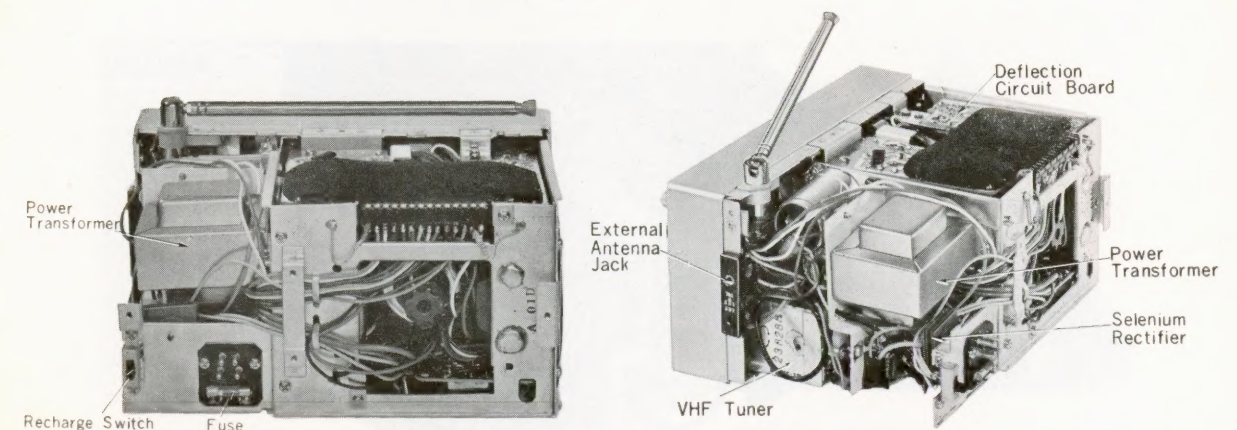
(Fig. 5)



(Fig. 6)



(Fig. 7)



(Fig. 8)

(Fig. 9)

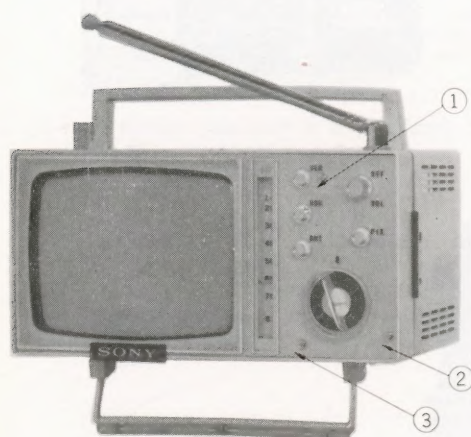
Method of Disassembling the Set

To Remove the Front Control Panel (Fig. 10)

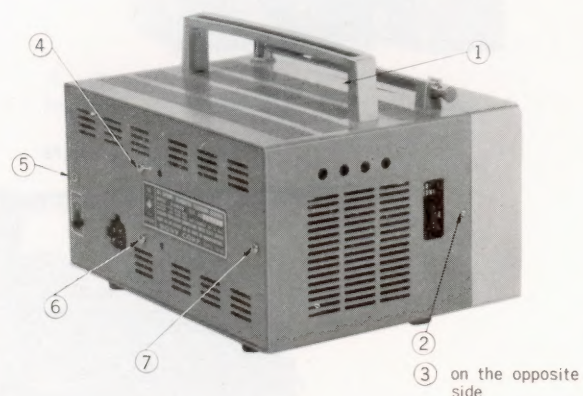
1. Pull all Control Knobs straight out. The Fine Tuning Knob may be somewhat difficult to remove... use force.
2. Remove three black screws 1, 2 and 3. The Front Control Panel can now be removed. See Fig. 10.

To Remove the Back Cabinet Cover (Fig. 11)

1. Remove the three small screws 1, 2 and 3 on the top side, on the left side and on the right side of the Cabinet respectively. See Fig. 11.
2. Remove the four screws 4, 5, 6 and 7 on the back side of the Cabinet. See Fig. 11.
3. Pull up the Telescopic Antenna from the Telescopic Antenna Catch. The Back Cabinet Cover can now be removed by pulling straight back.



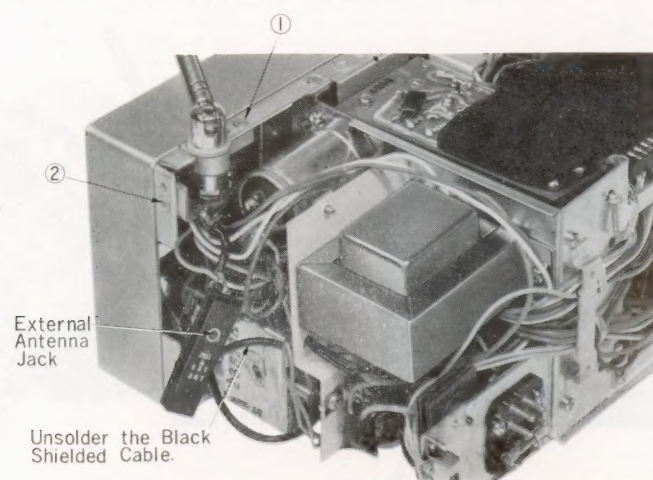
(Fig. 10)



(Fig. 11)

To Remove the Telescopic Antenna (Fig. 12)

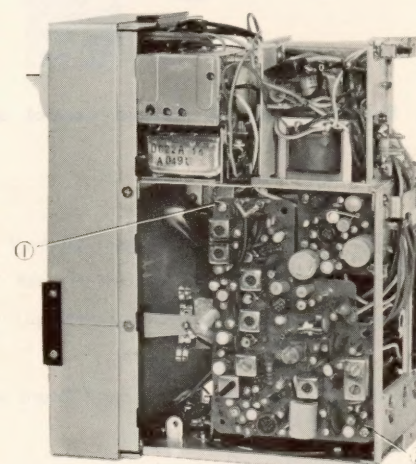
1. Remove the Back Cabinet Cover.
2. Disengage the External Antenna Jack from the Cabinet by pulling straight back.
3. Unsolder the short Shielded Cable at the upper terminals of the External Antenna Jack.
4. Remove the two screws 1 and 2. The Telescopic Antenna can now be detached. See Fig. 12.



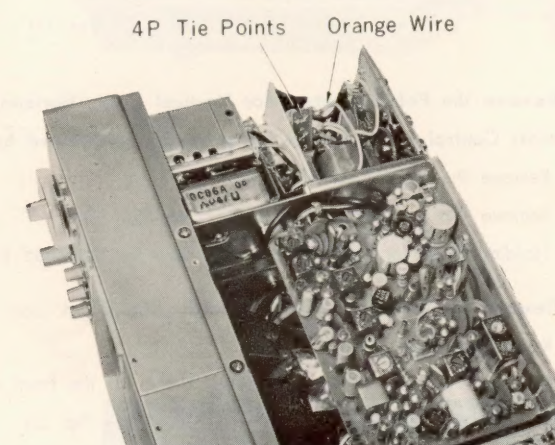
(Fig. 12)

To Remove the Tuner Block (Fig. 13, 14, 15, 16)

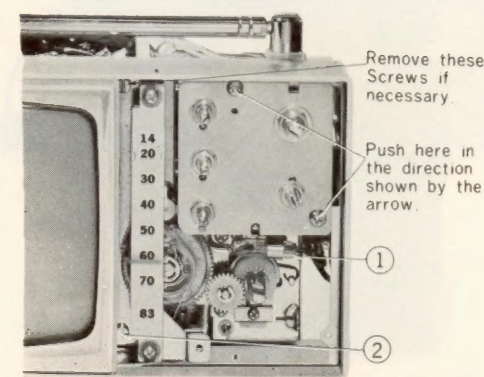
1. Remove the Back Cabinet Cover.
2. Unsolder the two wires, the white one for AGC signal input and the red one for the power supply to the VHF Tuner, at the terminals on the bottom of the Set. See Fig. 13.
3. Unsolder the Orange wire for the power supply to the UHF Tuner, at the 4P Tie-points. See Fig. 14.
4. Unsolder the Black Shielded Cable at the lower terminals of the External Antenna Jack.
5. Push out the Neon Lamp from the Neon Lamp Holder to the Left. See Fig. 15.
6. Remove the two screws 1 and 2 in Fig. 13 and lift the front end of the Signal Circuit Board. The Circuit Board will swing around the axis of the Multi-jack.
7. Loosen the Flat Headed Screw located on the partition plate. It is not necessary to remove this screw. See Fig. 16.
8. Remove the two screws 1 and 2 in Fig. 15.
9. Pull the Tuner Block straight toward the front and then move to the right. The Tuner Block can be taken out from the Cabinet.



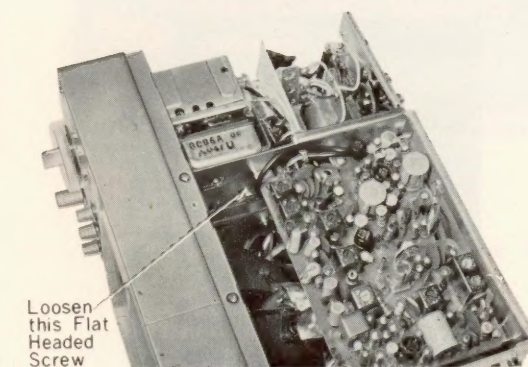
(Fig. 13)



(Fig. 14)



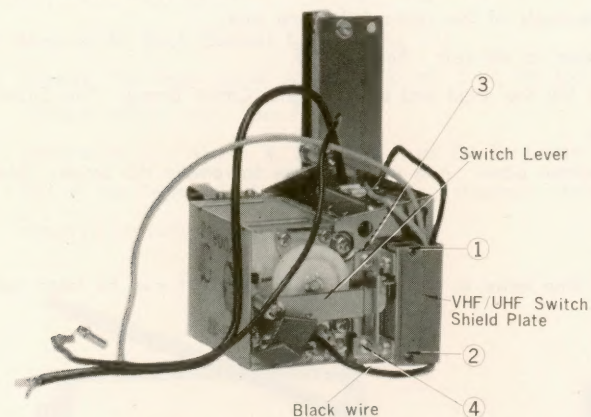
(Fig. 15)



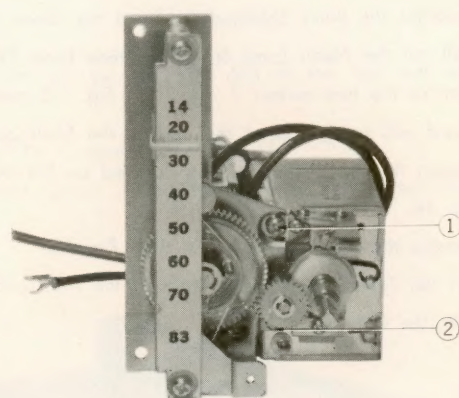
(Fig. 16)

To Separate the VHF Tuner from the Tuner Block (Fig. 17, 18)

1. Remove the two screws 1 and 2 to detach the VHF/UHF Switch Shield Plate. See Fig. 17.
2. Unsolder the Black wire at the terminal of the VHF/UHF Switch.
3. Remove the two screws 3 and 4 in Fig. 17.
4. Remove the two screws 1 and 2 in Fig. 18.



(Fig. 17)



(Fig. 18)

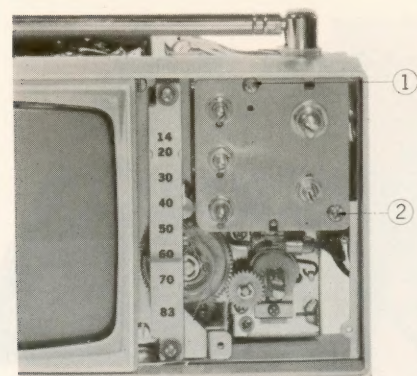
To Remove the Potentiometers for Vertical Hold, Horizontal Hold, Brightness Control, Volume Control and Contrast Control (PIX), follow the procedure explained below. (Fig. 19)

1. Remove the Front Control Panel.
2. Remove the two screws 1 and 2. See Fig. 19.

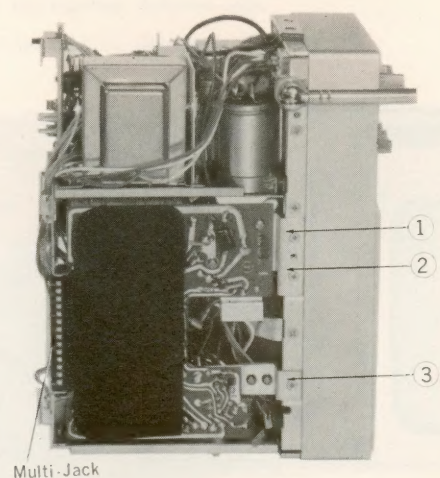
The Holding Plate for Potentiometer can now be detached from the chassis.

To Remove the Deflection Circuit Board (Fig. 20)

1. Remove the Back Cabinet Cover.
2. Remove the three screws 1, 2 and 3 and lift the front side end of the Circuit Board. The Circuit Board will swing around the axis of the Multi-jack. See Fig. 20.
3. Pull out the eight wires, Green, Blue, Orange, Brown, Black, White and two Yellow ones, from the pins on the Circuit Board. Be careful not to confuse the corresponding pins for the two Yellow wires in assembling.
4. The Circuit Board can now be removed as a unit by pulling away from the Multi-jack.



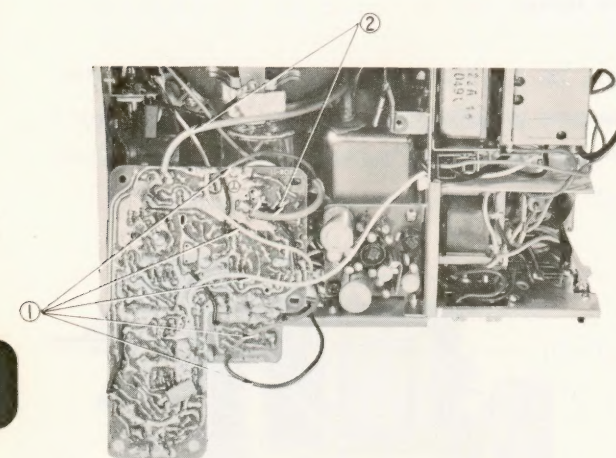
(Fig. 19)



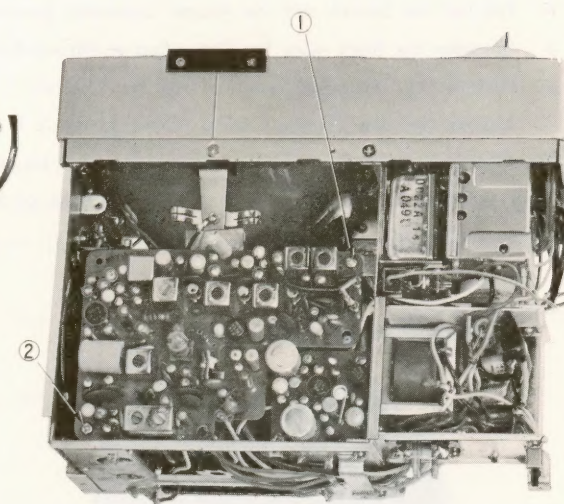
(Fig. 20)

To Remove the Signal Circuit Board (Fig. 21, 22)

1. Remove the Screws 1 and 2. See Fig. 21.
2. Unsolder the fine leads 1 and two gray Shielded leads 2. See Fig. 22.



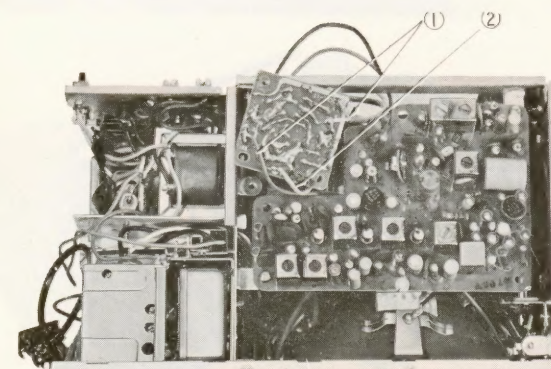
(Fig. 21)



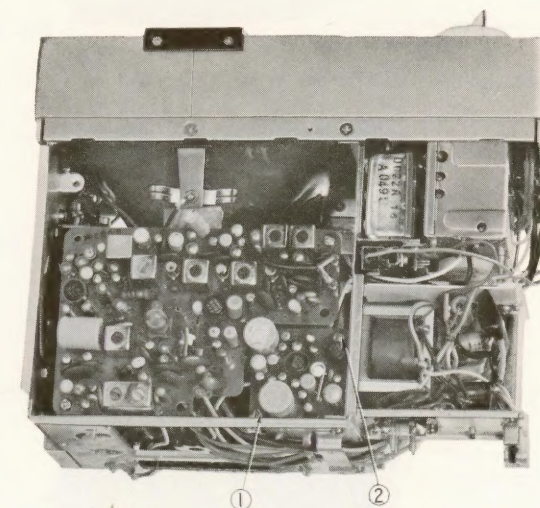
(Fig. 22)

To Remove the Sound Circuit Board (Fig. 23, 24)

1. Remove the Screws 1 and 2. See Fig. 23.
2. Unsolder the two Shielded leads 1, and a Brown lead 2. See Fig. 24.



(Fig. 23)

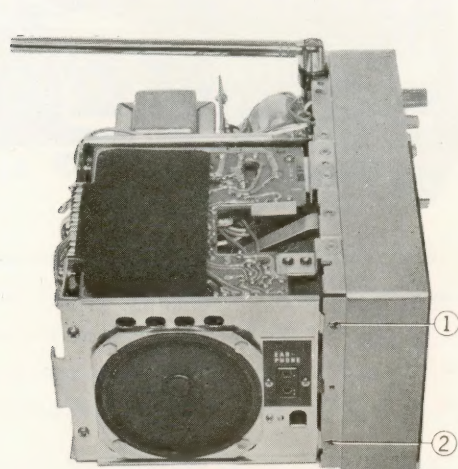


(Fig. 24)

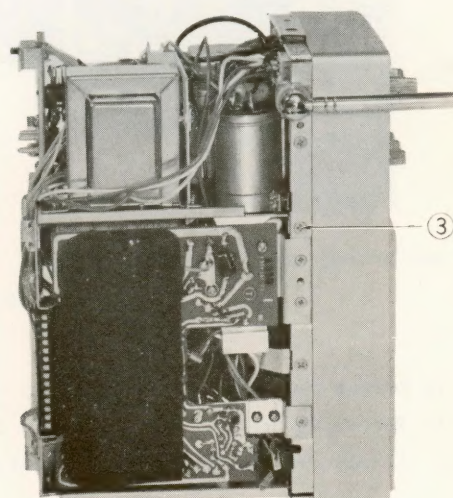
To Remove the Chassis (Fig. 25, 26, 27, 28)

1. Pull out all the Control Knobs.
2. Remove the Front Control Panel.
3. Remove the two securing screws for Potentiometer Holding Plate.
4. Pull out the Socket and the Anode Connector from the Picture Tube.
5. Unsolder the Black wire for Grounding at Picture Tube Holder.
6. Remove the Telescopic Antenna from the Cabinet.
7. Remove the four Chassis holding screws 1 and 2 in Fig. 25, 3 in Fig. 26 and 4 in Fig. 27.

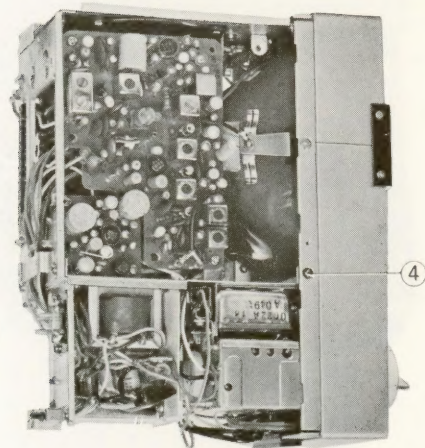
The Chassis and the Front Cabinet Frame can now be separated by pulling away each other. Be careful not to break the lead wires connecting the Deflection Yoke on the Picture Tube and the High Voltage Block in the Chassis.



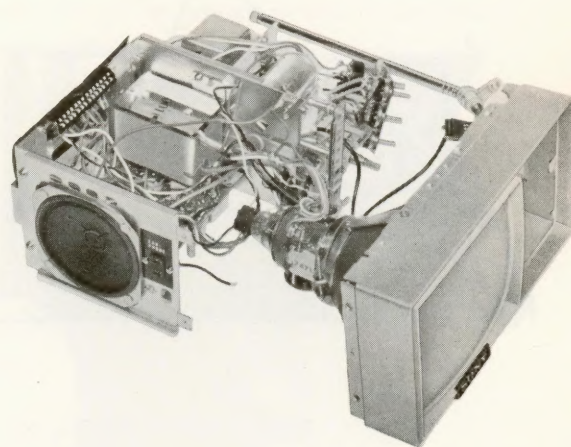
(Fig. 25)



(Fig. 26)



(Fig. 27)



(Fig. 28)

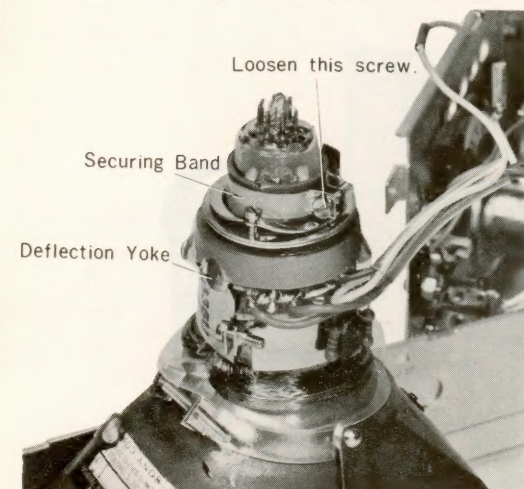
To Remove the Picture Tube (Fig. 29, 30)

1. Separate the Chassis and the Front Cabinet Frame.
 2. Remove the Deflection Yoke from the Picture Tube by loosening the screw on the Securing Band. See Fig. 29.
 3. Loosen the Securing Screw for Picture Tube Holder.
 4. Remove the two screws for Picture Tube Holder. See Fig. 29.
- The Picture Tube can now be removed from the Front Cabinet Frame.

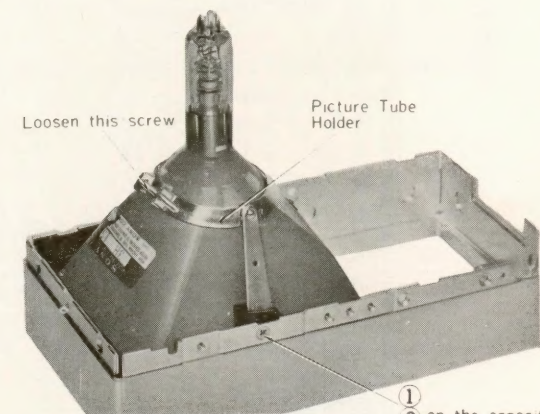
Note :

When the Picture Tube is to be assembled with the Front Cabinet Frame, be careful to the followings.

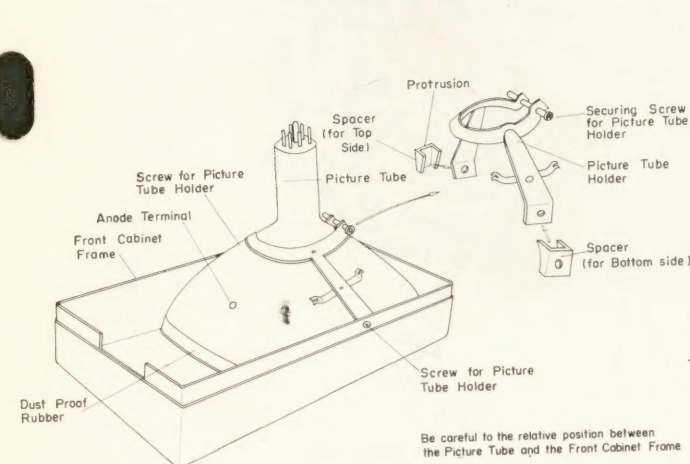
1. Clean the surface of the screen of the Picture Tube.
2. Relative positions between the Picture Tube, Picture Tube Holder, Spacer and the Front Cabinet Frame must be as shown in the Fig. 31.
3. In assembling the Picture Tube with the Picture Tube Protector, attach the Dust Proof Rubber to cover the joint live of the Tube and the Protector.
4. Do not leave any between the Picture Tube Protector and the Mask.



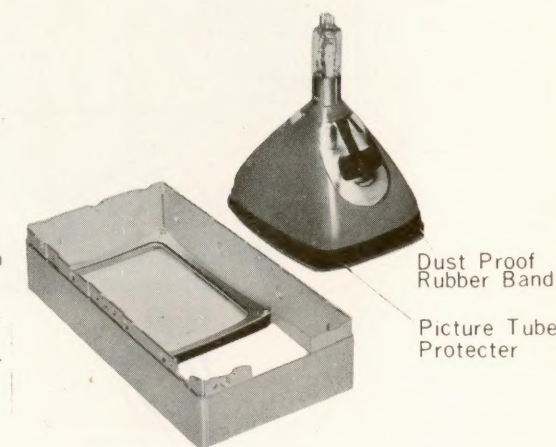
(Fig. 29)



(Fig. 30)



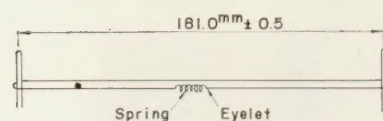
(Fig. 31)



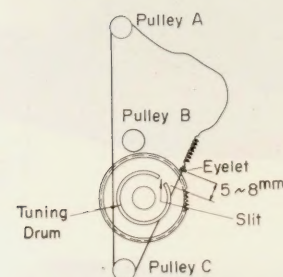
(Fig. 32)

To String the Dial Cord for Tuner

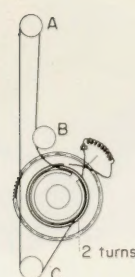
1. Determine the required length of the Cord in accordance with Fig. 33.
2. Detach the Dial Scale and the Pointer Rail from the Tuner Block by removing the two screws 1 and 2. See Fig. 37.
3. Thread the Cord on the Pulley A and C so that the end of the Spring comes to the position 5~8 mm apart from the slit on the Tuning Drum and then secure temporarily the Cord at the Pulley C with the finger. See Fig. 34.
4. Thread the Pulley A side of the Cord on the Pulley B and then wind two turns around the Tuning Drum clockwise.
5. Twist the ends of the Cord by half turn so that they cross over each other. See Fig. 35.
6. Hook the Spring on the Shaft of the Tuning Drum.
7. Attach the Pointer to the Cord. See Fig. 36.



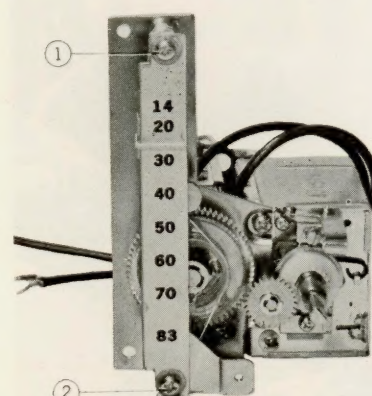
(Fig. 33)



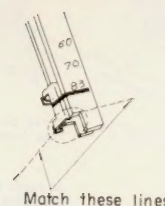
(Fig. 34)



(Fig. 35)



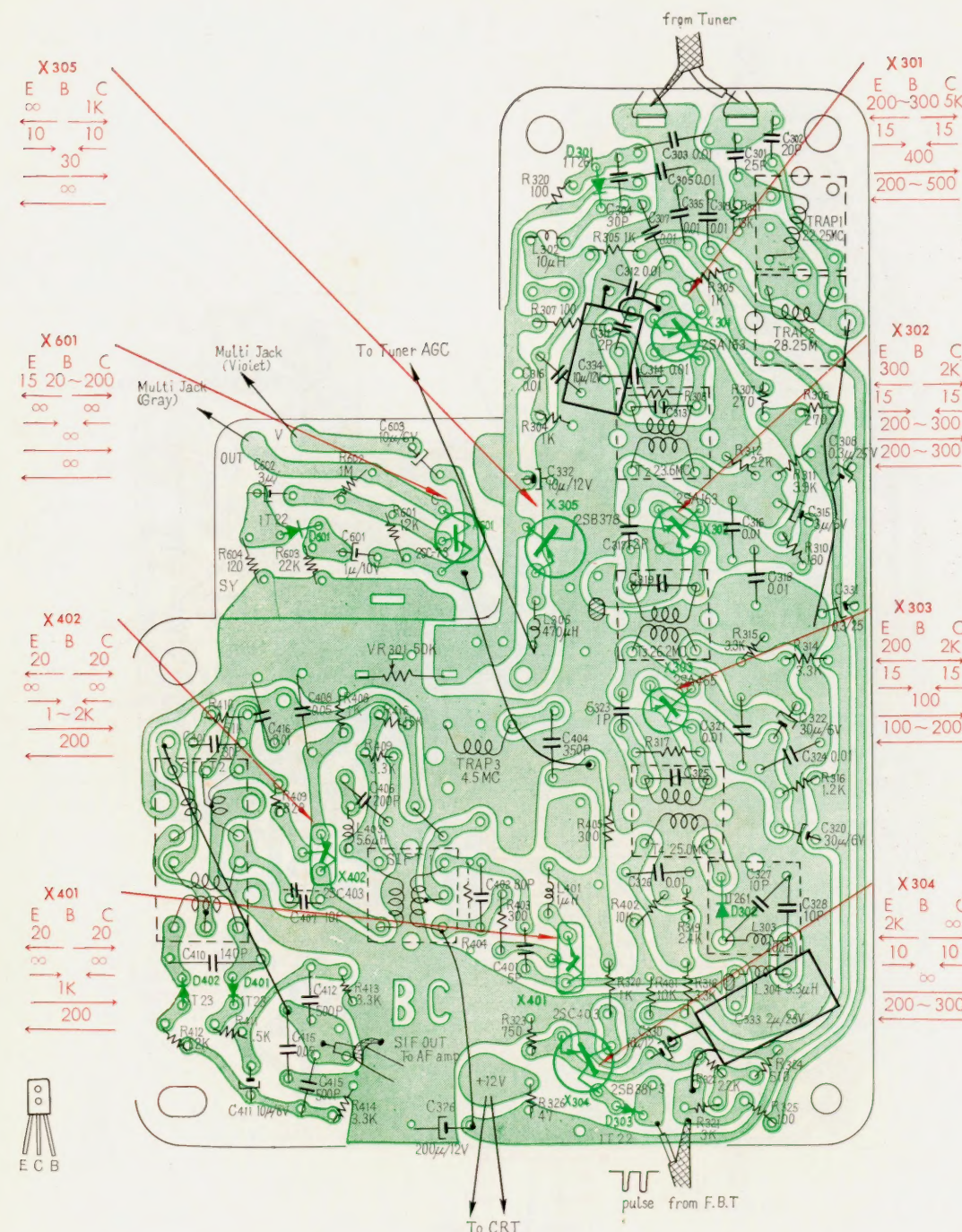
(Fig. 36)



(Fig. 37)

Resistance Measurement

— Signal Circuit Board —

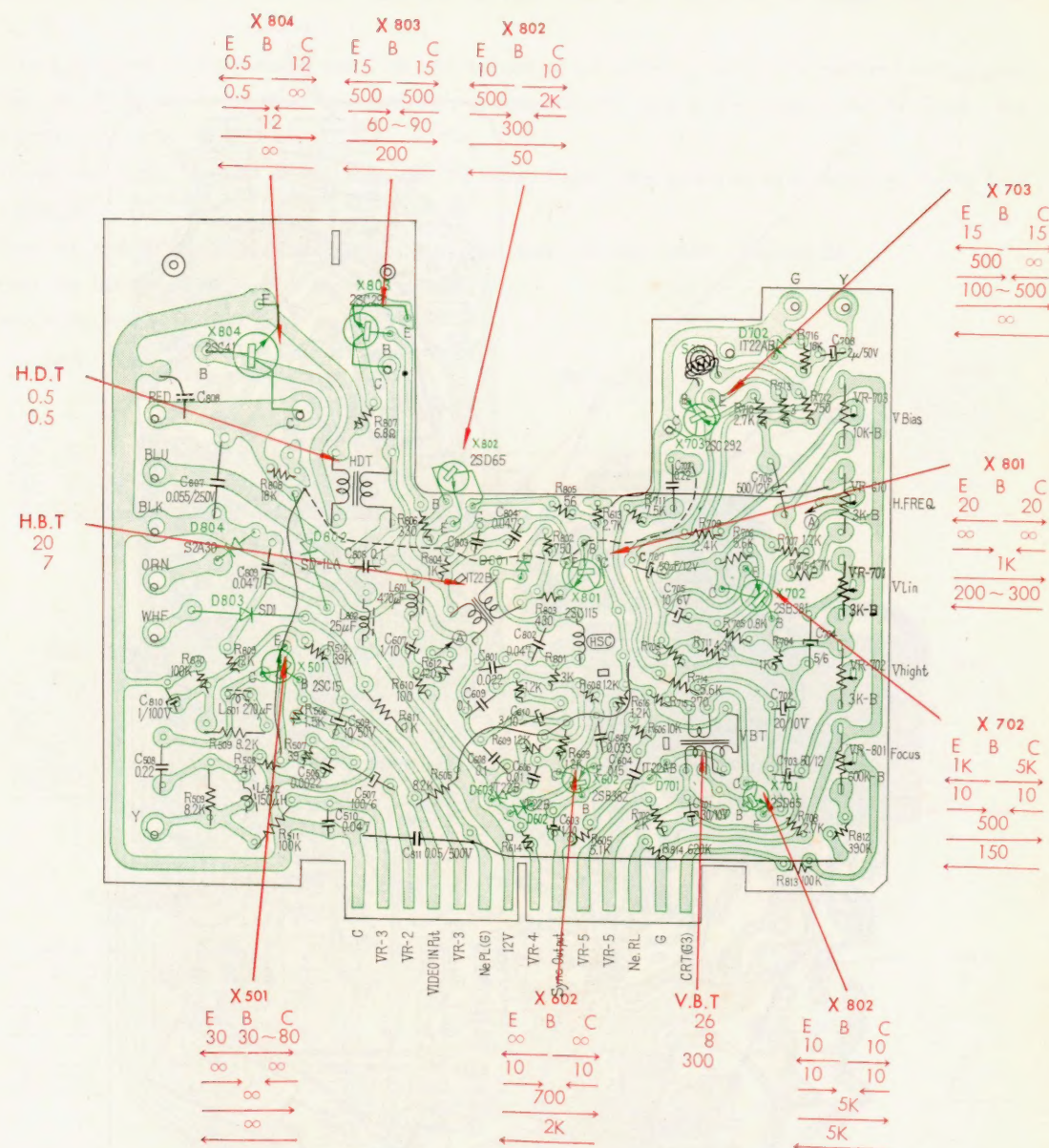


* Measured with Circuit Tester (10 kΩ / V)

* ⊕ Black ⊖ Red
Tester Lead Color
* Resistance in ohm

Resistance Measurement

—Video Circuit Board—



* Measured with Circuit Tester (10kΩ/V)

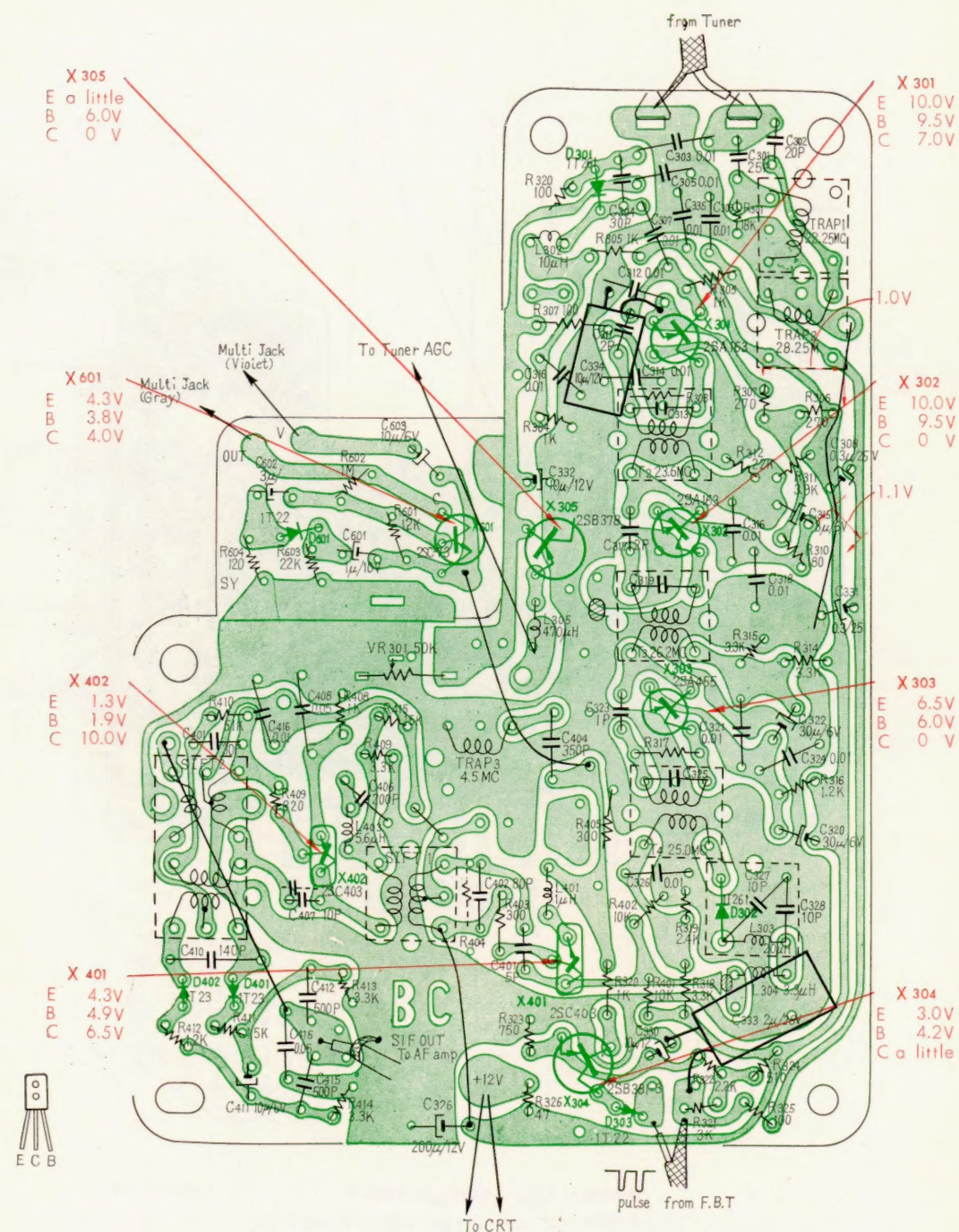
* ⊕ ⊖
Black Red
Tester Lead Color
* Resistance in ohm

Resistance Chart

	VBT	HDT	HBT
Primary	26 Ω	0.5 Ω	20 Ω
Secondary	8 Ω	0.5 Ω	7 Ω
Ternary	300 Ω	—	—

Voltage Measurement

—Signal Circuit Board—



* Power Supply Voltage 12V

* Measured with Circuit Tester (10KΩ/V)

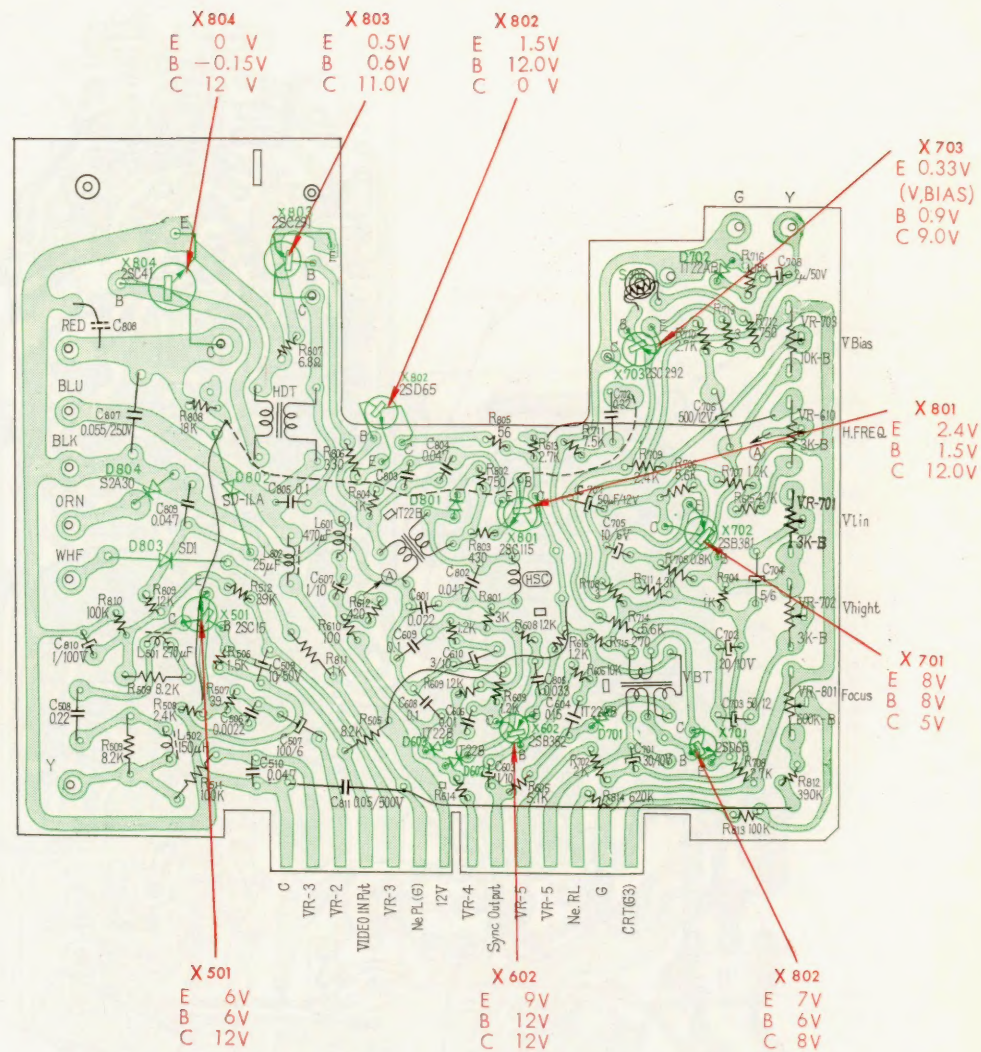
* Measured from ground to points indicated

Note

AGC Circuit including X304 and X305 is not operated in the measurement

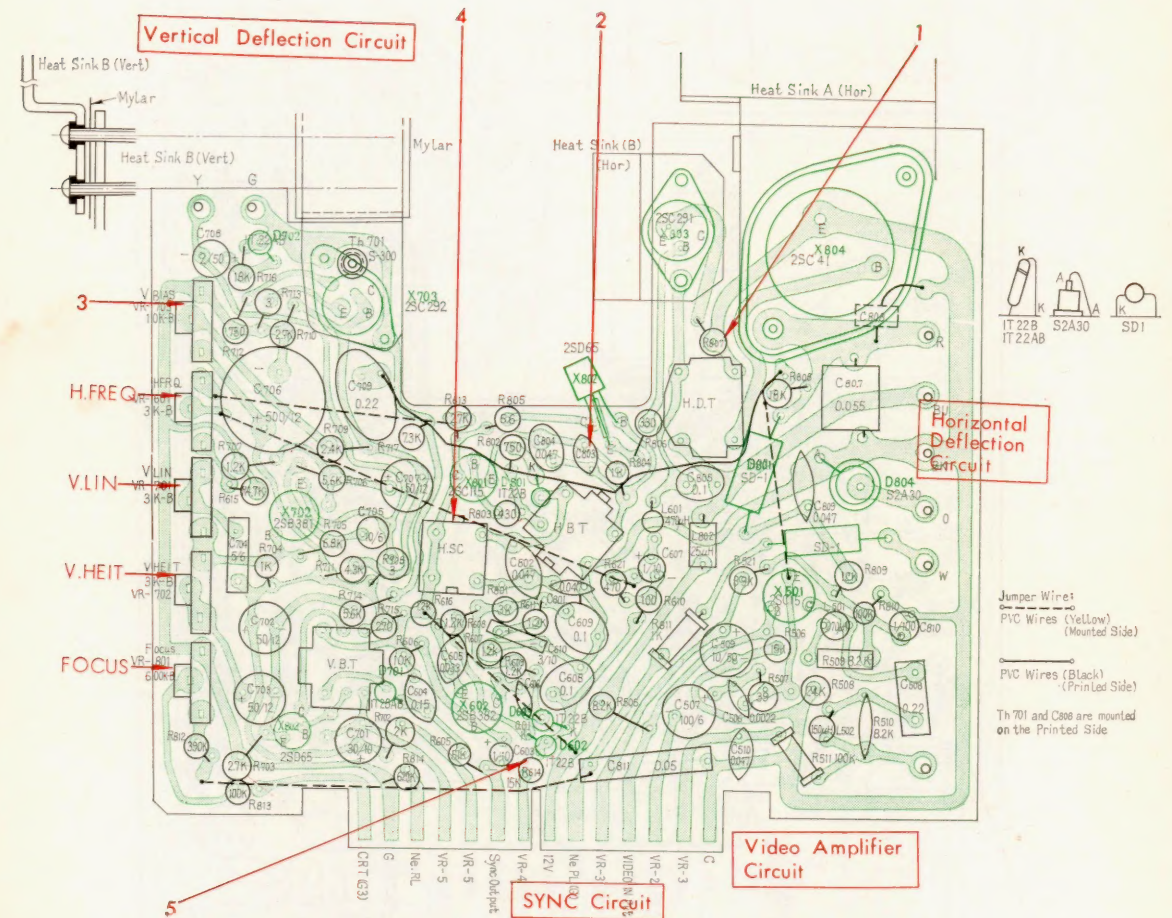
Voltage Measurement

— Deflection Circuit Board —

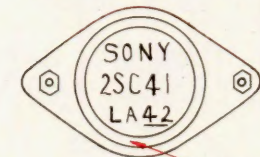


- *Power Supply Voltage: 12V
- *Measured with Circuit Tester (10KΩ/V)
- *Measured from ground to points indicated

Location of Adjustment Parts



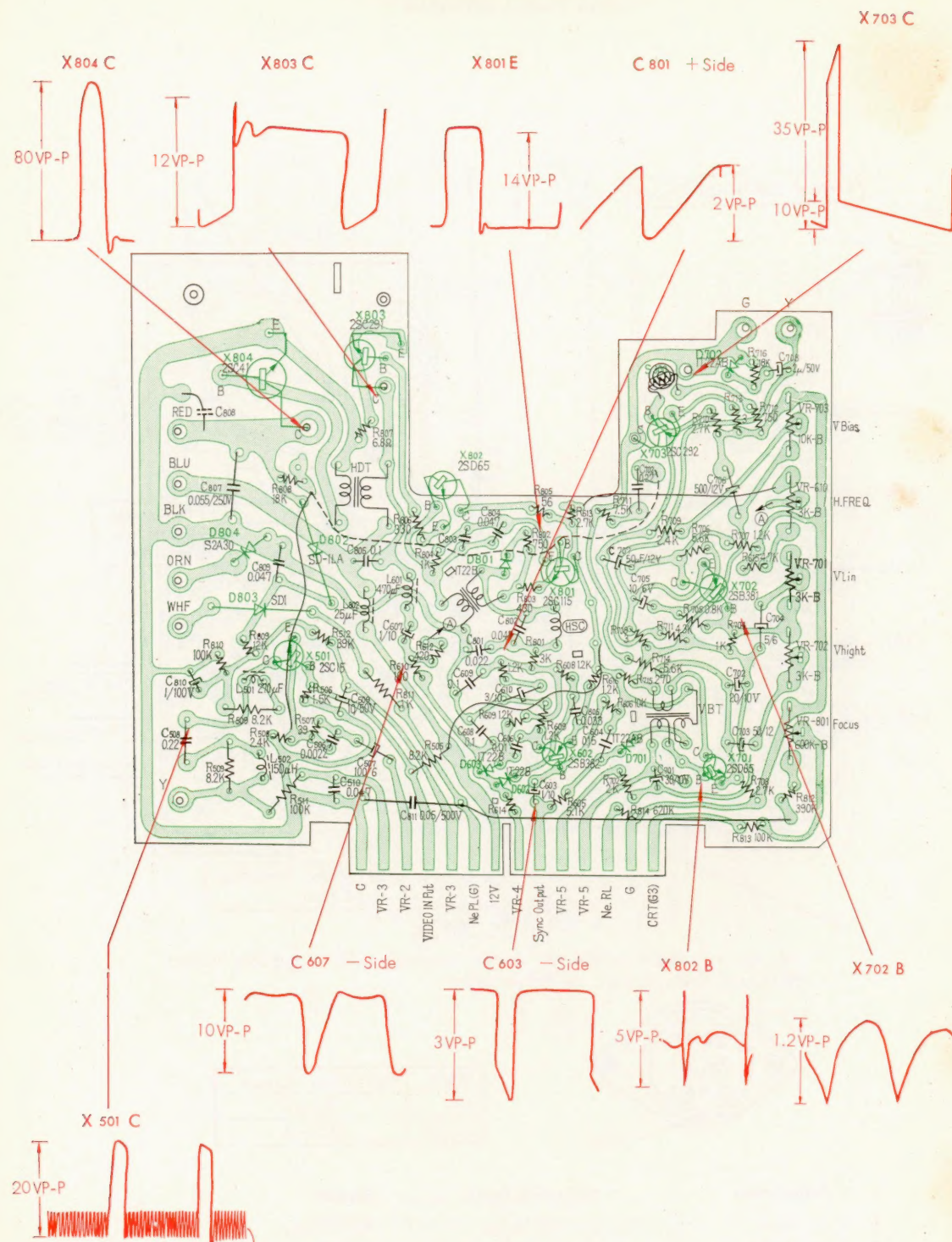
The last two digits on the top of the Transistor (2SC41) indicate correct Horizontal Drive Current as shown below.



Digits	Hor. Drive Current
42	85 mA
32.22	100 mA

Adjustment	Adjusting Parts	Results
1. Ic of X803	R807 (2-15Ω)	85-100mA
2. Pulse Width	C803, 0-0.033 μF	10-13 μS
3. Vert. Bias Current	VR703	0.33V across R713
4.	HSC	Stable picture in either case where HSC is shorted or normal.
5. Hor. hold variable range	R614(12-27)	Number of diagonal bars (10-14 lines)

Waveform Measurement



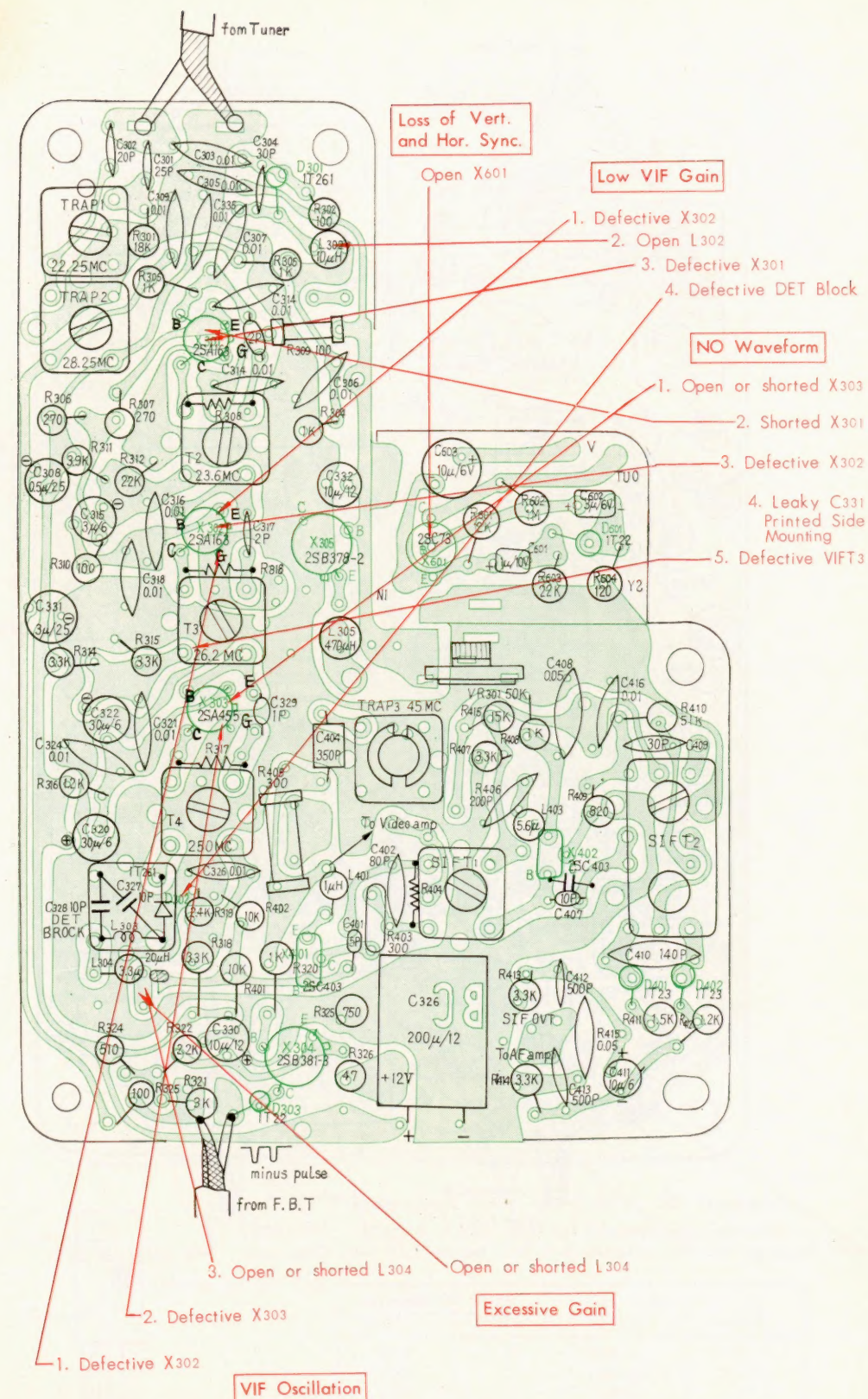
Can be adjusted by Contrast Control.

*Measured with Synchroscope

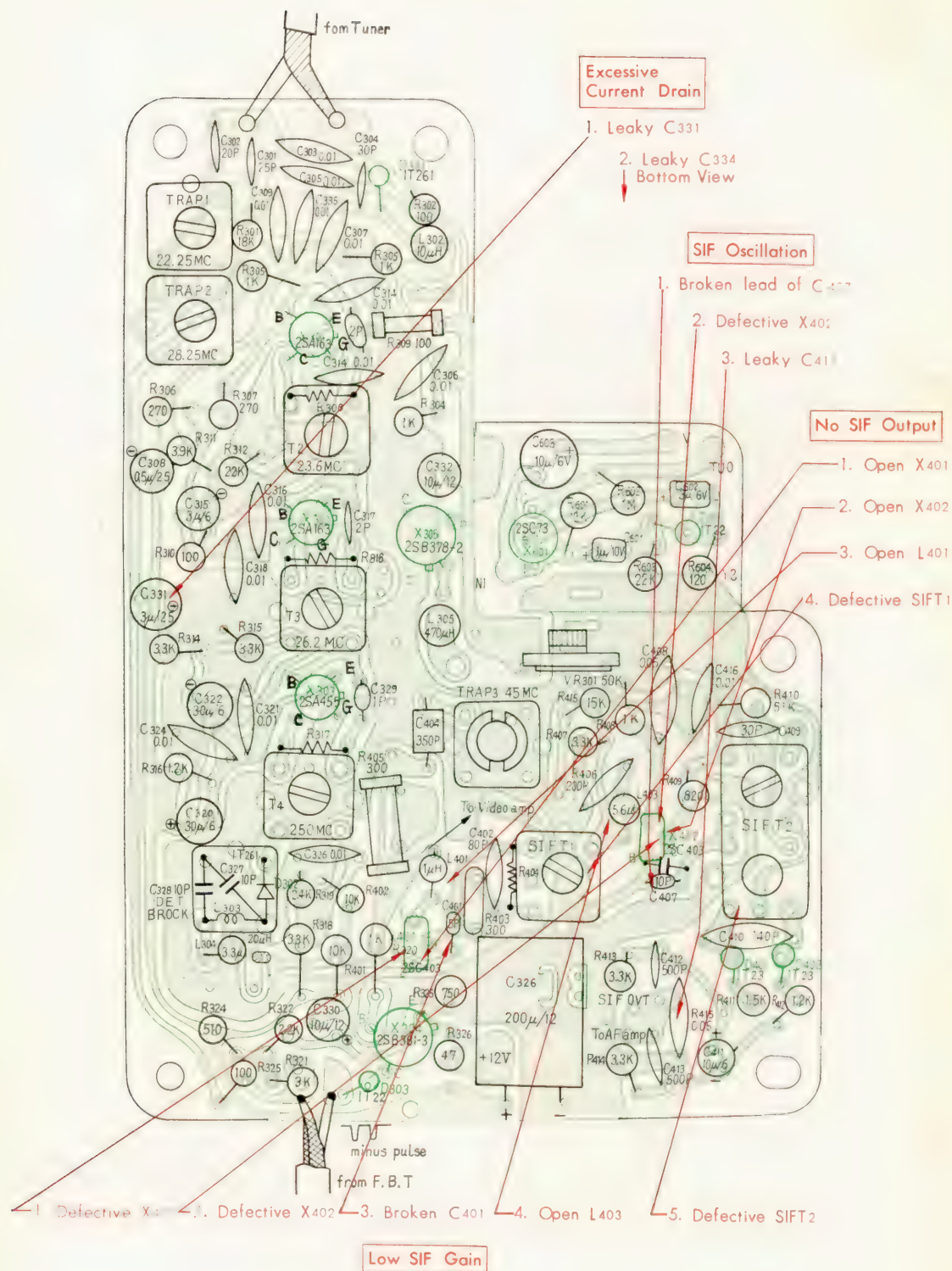
A: Anode
E: Emitter
B: Base
C: Collector

Trouble Shooting

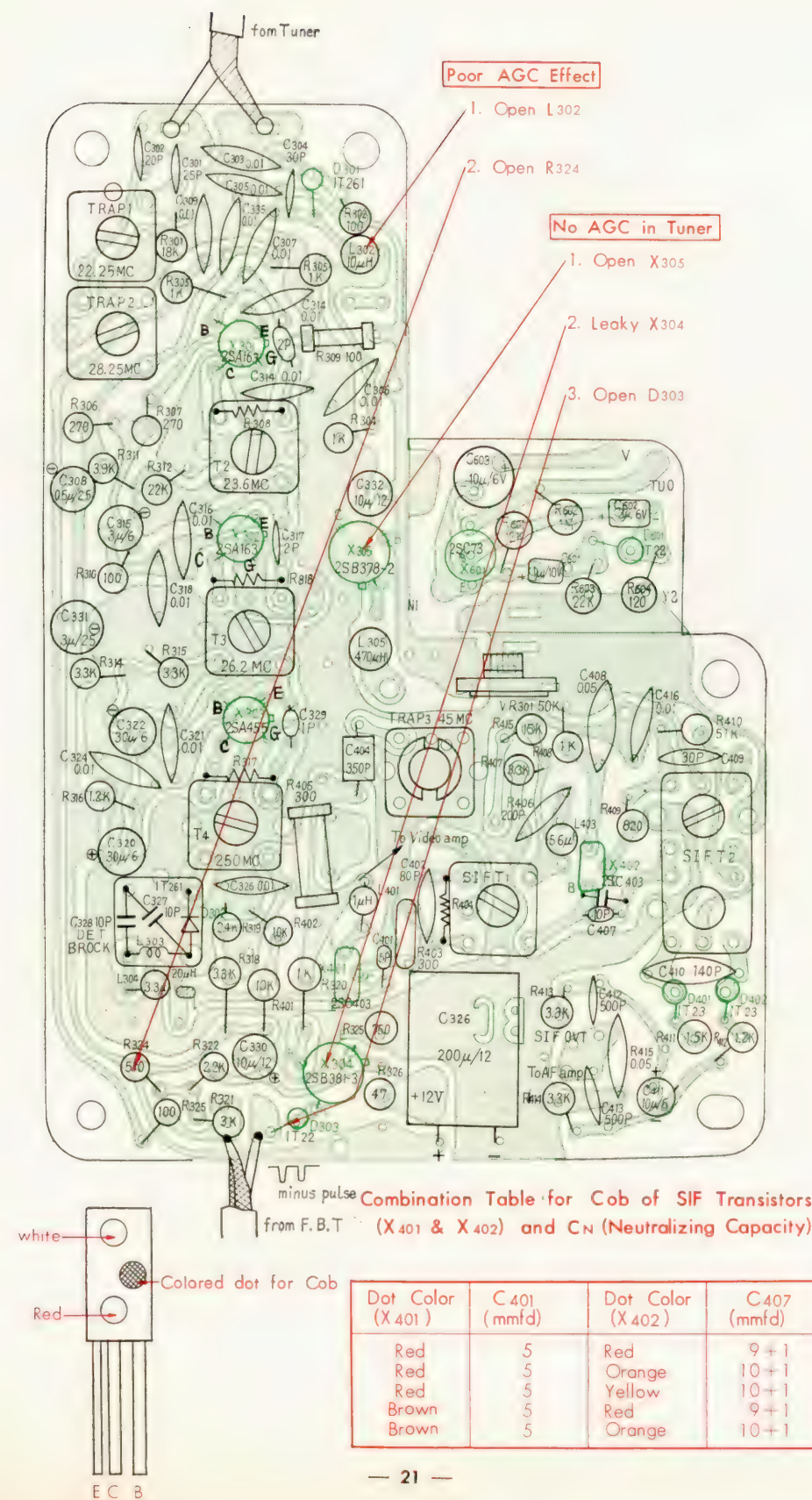
—VIF Circuit—



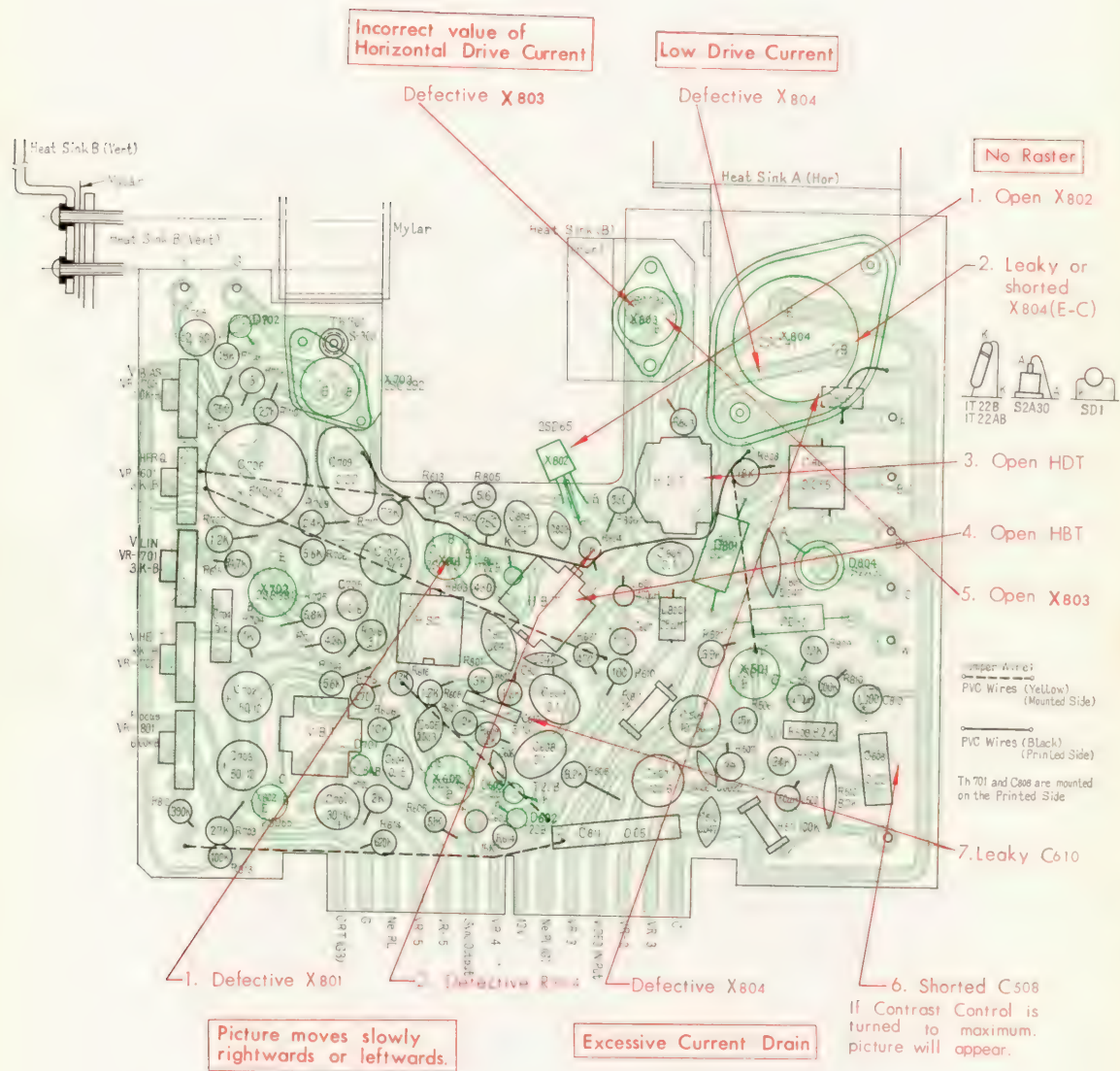
—SIF Circuit—



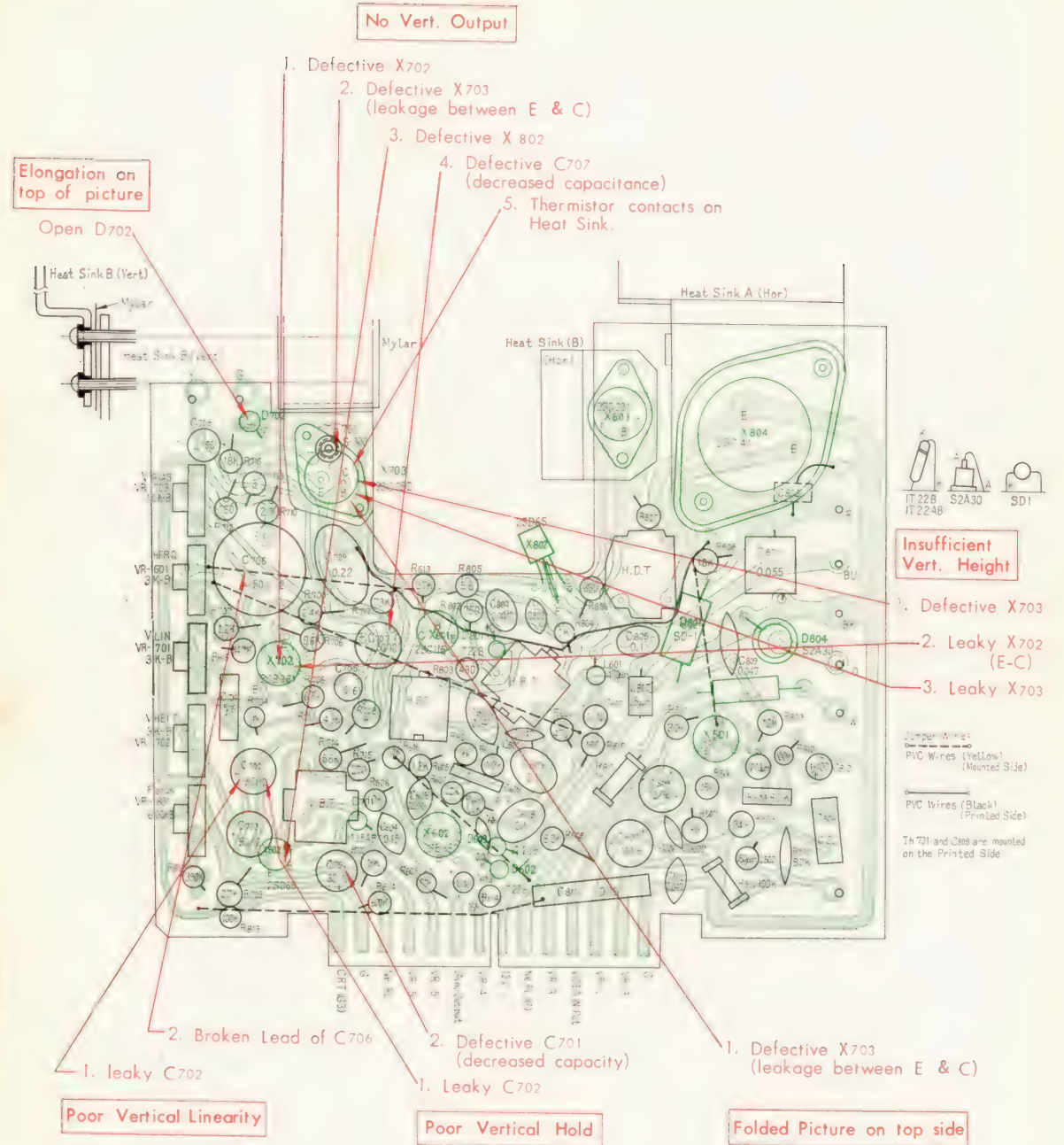
—AGC Circuit—



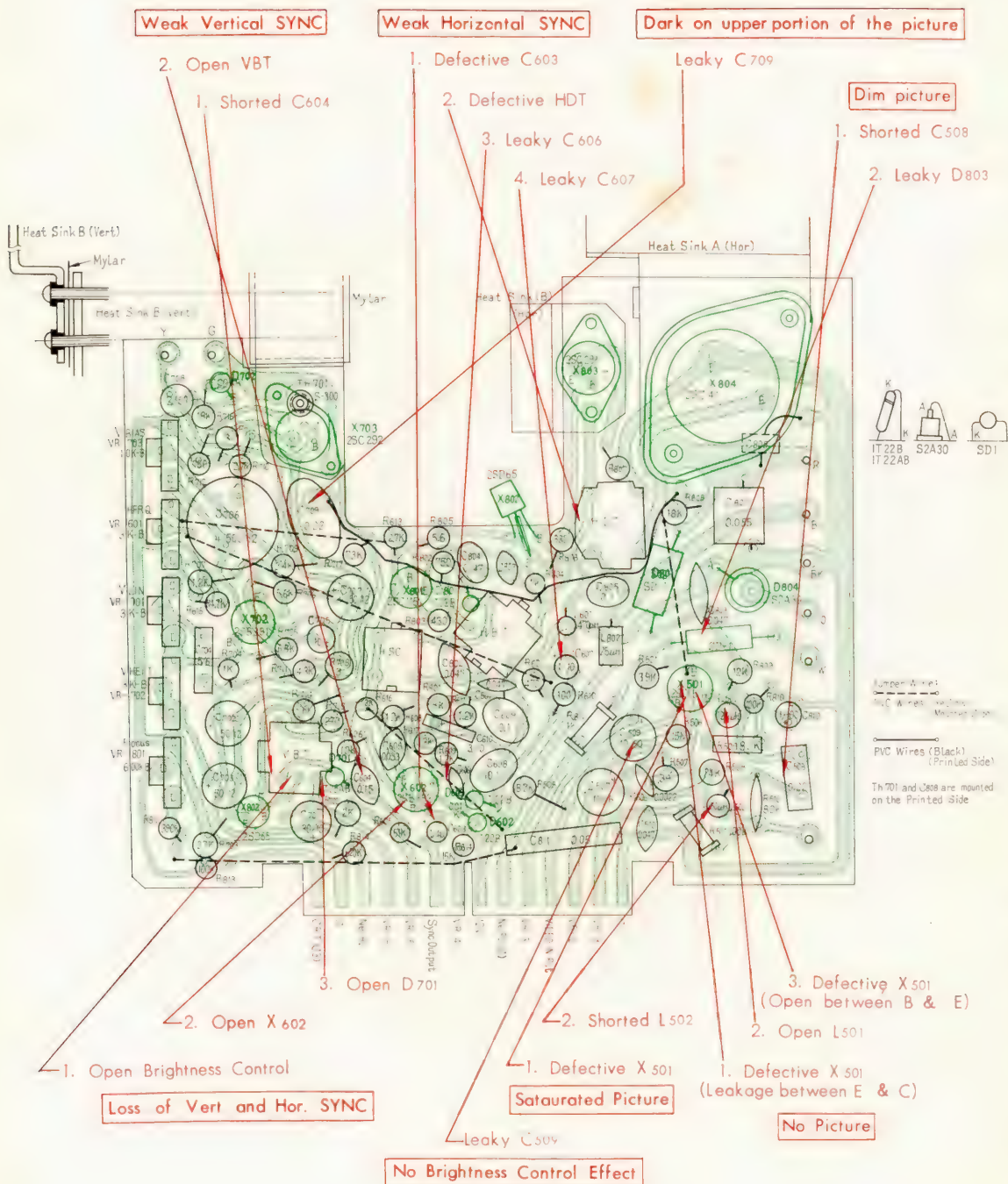
—Horizontal Deflection Circuit—



—Vertical Deflection Circuit—



—SYNC and Other Circuits—



Trouble Shooting Chart

RASTER

Symptom	Checking Procedure	Probable Cause*
1. No Raster and No Sound	Check resistance between B+ and Ground. No Resistance Approx. 300 Ω Replace the Deflection Circuit Board with a new one.	Power Supply Shortcircuit between any two of B+ lines in the Circuit Boards.
2. No Raster	Neon Lamp is not lit on. Neon Lamp is lit on. Heater of the Picture Tube is lit. Heater of the Picture Tube is not lit.	High Voltage Block Deflection Circuit Board ① X ₈₀₁ , X ₈₀₄ , D ₈₀₁ , HDT ② HBT, HSC, R ₈₀₇ ③ C ₆₀₉ , D ₈₀₃ , C ₆₀₄ Poor contact of Multi-Jack 1. High Voltage Block 2. Picture Tube 3. Cathode Circuit 1. Picture Tube 2. Picture Tube Socket
3. Dim Raster	Raster Form is normal. Raster size does not change. Raster size changes. Raster is normal.	Picture Tube High Voltage Block Deflection Circuit Board ① D ₈₀₃ , VR ₃ ① C ₅₀₉ High Voltage Block
4. Single Horizontal Stripe on Raster	Replace the Deflection Circuit Board with a new one. The Stripe still appears. The Stripe disappears.	Deflection Yoke Deflection Circuit Board ① X ₇₀₁ , X ₇₀₃ , VBT ① or ① C ₇₀₇ , C ₇₀₃ , C ₇₀₁ , C ₇₀₂ , C ₇₁₃
5. Vertical Shrinkage	Replace the Deflection Circuit Board with a new one. Elongation on left side of Raster.	Deflection Circuit Board ① X ₇₀₁ , X ₇₀₃ , C ₇₀₄ ① C ₇₀₅ , C ₇₀₂ ① Vertical Bias Current
6. Abnormal Raster	Abnormal Oscillation Narrow Horizontal Width	Deflection Circuit Board ① HSC ① HDT or D ₈₀₁ ① C ₈₀₆ , C ₇₀₃ , C ₈₀₇ Deflection Circuit Board ① C ₈₀₆ or C ₈₀₇

DEFLECTION and SYNC

Symptom	Checking Procedure	Probable Cause*
7. No Picture and No Sound	Replace the Signal Circuit Board with a new one. No Change Normal	Tuner Signal Circuit Board ① X ₃₀₁ , X ₃₀₃ , X ₄₀₁ , DET Block C ₃₂₀ , C ₄₁₆ , C ₃₃₅ , C ₃₁₂ , C ₃₂₄ , C ₃₁₄ ② TRAP ₁₋₂ , VIFT ₂₋₄ ② R ₃₁₆ , R ₃₀₆ , R ₃₁₀
8. No Picture	Replace the Deflection Circuit Board with a new one. No Change Normal	Deflection Circuit Board ① X ₅₀₁ , C ₅₀₇ or D ₅₀₂ ② C ₅₀₈
9. Low Contrast	Replace the Deflection Circuit Board with a new one. No Change Normal	Signal Circuit Board ① X ₃₀₁ , X ₃₀₃ , X ₄₀₁ , C ₃₂₆ , C ₄₁₆ , C ₃₃₅ , C ₃₁₂ , C ₃₂₄ , C ₃₁₄ , TRAP ₁₋₂ , VIFT ₂₋₄ , DET Block, AGC Circuit
10. Saturated Picture	Replace the Deflection Circuit Board with a new one. No Change Normal	Deflection Circuit Board ① X ₁₃ , C ₃₀₄ , R ₃₁₄ , D ₈₀₂ , C ₆₀₉
11. Loss of Synchronization	Replace the Deflection Circuit Board with a new one. No Change Normal	Signal Circuit Board ① X ₃₀₄ , X ₃₀₅ , R ₄₀₂ ① X ₄₀₁ , D ₃₀₂ , D ₃₀₃ or DET Block Deflection Circuit Board ① X ₅₀₁ or D ₅₀₂ ② R ₅₀₅ SYNC Circuit Board ① X ₆₀₁ ② R ₆₀₁ Deflection Circuit Board ① C ₆₀₄ , C ₆₀₃ , C ₆₀₉ ② VBT D ₆₀₃ , R ₆₀₃ , L ₆₀₁ , HBT ③ X ₈₀₁ , HBT

SOUND

Symptom	Checking Procedure	Probable Cause*
12. No Sound	Listen with a Earphone. Sound is heard through the Earphone. No sound is heard.	Earphone Jack (breakage of leads) Speaker (breakage of Voice Coil) Sound Circuit Board Short Circuit of Shielding Wire ② X ₅₅₁ , X ₅₅₄ , C ₅₅₁ ① C ₅₅₄
13. Weak Sound	Cannot be improved by turning the Fine Tuning Knob. Replace the Signal Circuit Board with a new one.	Signal Circuit Board ① X ₄₀₁ , X ₄₀₂ , SIFT ₁₋₂ ② S ₁₁₁ or C ₄₁₅
14. Distorted Sound	Listen with a Earphone. Normal Still distorted	Tuner Sound Circuit Board ① C ₅₅₁ , X ₅₅₁ , X ₅₅₁ Signal Signal Circuit Board ① X ₄₀₁ , X ₄₀₂ , D ₄₀₁ , D ₄₀₂ ② R ₄₀₂ ③ SIF
15. Buzz	Listen with a Earphone. Normal Still distorted	Speaker Sound Circuit Board ① X ₅₅₂ , X ₅₅₄ , X ₅₅₂ , C ₅₅₂ Signal Circuit Board ① D ₄₀₁ , D ₄₀₂ , C ₄₁₁ ② Sec. of SIFT ₂ Signal Circuit Board ① C ₄₁₀ ② D ₄₀₁ , D ₄₀₂ ③ Sec. of SIFT ₂

* The cause of trouble may probably be in any of the listed circuits.

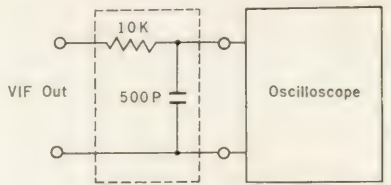
① Defective ② Open ③ Shorted ④ Leaky ⑤ Maladjusted

Adjustment Procedure

Adjustments of VIF Response

Before starting the alignment of VIF Circuit, adjust collector current (Ic) of X1 as follows.

1. Unsolder lead for keying pulse.
2. Turn VR301 (for Delayed AGC) counter-clockwise to the full.
3. Connect a 5 k Ω Potentiometer across R324 (310 Ω).
4. Connect a Voltmeter (or Circuit Tester) across R307 (Emitter Bias Resistor of X1).
5. Turn the Potentiometer, connected at process 3, until the Voltmeter reads approximately 0.05 V.
6. Connect a Voltmeter between Tuner AGC Out lead and ground.
7. Turn VR301 until the Voltmeter reads 5.3V \pm 0.1V.

Adjusting Item	Preparation	Adjustment Procedures
1. VIFT ₄	(1) Disconnect the Tuner Output leads. (2) Connect a Standard Signal Generator (SSG) to the VIF Input Pins on the Signal Circuit Board (INPUT to VIDEO in Fig. 39). (3) Connect a Voltmeter across R ₄₀₂ (VIF Detector Out).	1. Deliver a 25 Mc signal from the SSG and turn the slug of VIFT4 for maximum reading on the Voltmeter.
2. VIFT ₂	(1) Connect the Tuner Output leads to the VIF Input Pin Jacks. (2) Connect a Sweep Generator and a Marker Generator to the T.P. (Test Point) of the Tuner through a 0.01 μ F Capacitor.	2. Deliver a 23.68 Mc signal from the Marker Generator and adjust the slug of VIFT2 so that the marker is just at the 40% point (A) in Fig. 38) of the standard response curve.
3. VIFT ₃	(3) Connect an Oscilloscope across R ₄₀₂ (VIF Detector Out) through a noise filter as specified below.	3. Deliver a 26.75 Mc signal from the Marker Generator and adjust the slug of VIFT3 so that the marker is just at the 65% point (B) in Fig. 38) on the standard response curve.
4. TRAP1		4. Deliver a 22.25 Mc signal from the Marker Generator and adjust the slug of Trap 1 so that the marker is just at the dip point (C) in Fig. 38) on the standard response curve.
5. TRAP2		5. Deliver a 28.25 Mc from the Marker Generator and adjust the slug of Trap 2 so that the marker is just at the dip point (D) in Fig. 38) on the standard response curve.

In case no standard response curve as shown in Fig. 38 is obtained by the preceding adjustments, from Step 1 to 5, replace damping resistor(s) (R₃₁₃ and/or R₃₁₃) mounted on the printed side of the Signal Circuit Board, with suitable ones for optimum result.

Adjustments of SIF Circuit

Adjusting Item	Preparation	Adjustment Procedures
1. TRAP 3	(1) Set the Brightness Control to the proper position and PIX Control to maximum. (2) Disconnect the Tuner Output leads. (3) Connect a Test Oscillator to the Video Detector Output and deliver a 4.5 Mc signal. The 4.5 Mc stripes will appear on the Picture Tube.	1. Adjust the slug of TRAP3 so that the 4.5 Mc stripes disappear from the Picture Tube.
2. SIFT ₁ and Primary of SIFT ₂	(1) Disconnect the Tuner Output leads. (2) Connect a Test Oscillator to the Video Detector Output Terminal. (3) Connect a Voltmeter across R ₄₁₃ .	2. Deliver a 4.5 Mc signal from the Test Oscillator and adjust the slug of SIFT1 and pink slug of SIFT2 (primary) for maximum reading on the Voltmeter.

Adjusting Item	Preparation	Adjustment Procedures
3. Secondary of SIFT ₂	(1) Disconnect the Tuner Output leads. (2) Connect a Sweep Generator and a SSG to the Video Detector Output Terminal. (3) Connect an Oscilloscope. (4) Connect a 5K Ω resistor across C ₄₁₃ .	3. Deliver a 4.5 Mc signal (Amplitude modulated) from the SSG and set the Sweep Generator on. S curve will appear on the Oscilloscope. Adjust the blue slug of SIFT ₂ (secondary) for obtaining minimum modulated waveform.

Note: 1. The above-mentioned adjustments should be repeated until optimum results are obtained.
2. If S curve is not symmetrical with respect to the intersection of the S curve and the return line, adjust the primary slug (pink) of the SIFT₂ to obtain optimum S curve. (See Fig. 40)

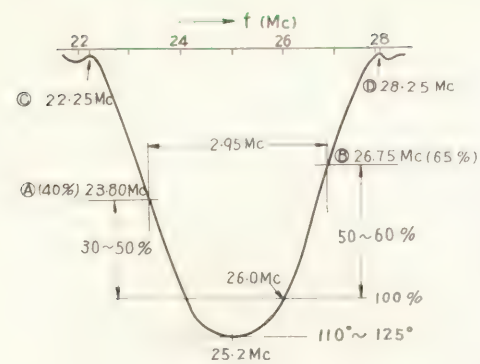
Adjustment of Deflection Circuit

Adjusting Item	Preparation	Adjustment Procedures
1. 50 V line	(1) Adjust the Horizontal and the Vertical Control Knobs until picture is in sync. (2) Connect a Voltmeter between the positive side of C ₈₀₉ and ground.	1. Voltmeter must indicate range between 50 V and 51 V. If not, replace R ₈₀₄ (5k Ω -18K Ω) with a suitable one for the correct reading on the Voltmeter.
2. Collector current of X ₅₀₁ (VD OUT)	(1) Set the Tuner to a free channel. (any channel free from broadcasting programs). (2) Check 12 V and 50 V Power Supply. (3) Connect a Voltmeter across R ₅₀₉ .	2. The Voltmeter must indicate approximately 20 V. If not, replace R ₅₀₅ (8.2K Ω -15k Ω) with a suitable one for 20V reading on the Voltmeter.
3. Collector current of X ₇₀₃ (VER OUT)	(1) Set the Horizontal and the Vertical Control Knobs to complete synchronization. (2) Check 12 V Power Supply. (3) Connect a Voltmeter across R ₇₀₃ (Emitter Resistor of X ₇₀₃).	3. Turn the Vertical Bias Control (VR ₇₀₃) so that the Voltmeter indicates approximately 0.33 V.
4. Vertical Height and Vertical Linearity	(1) Receive a Test Pattern. (2) Check 12 V Power Supply.	4. Adjust VR ₇₀₁ and VR ₇₀₂ for the optimum linearity and height.
5. Pulse Width	(1) Adjust the Horizontal and the Vertical Control Knobs until picture is in sync. (2) Short out the Horizontal Stabilizer Coil. (3) Connect an Oscilloscope to the emitter of X ₈₀₁ .	5. Correct value for pulse width is 10 ~ 12 μ sec. If not, replace C ₈₀₃ (0 ~ 0.03 μ F) with a suitable one for the correct pulse width.
6. H. S. C. (Horizontal Stabilizer Coil)	(1) Short out the HSC terminals tentatively. (2) Set the Horizontal and the Vertical Control Knobs to complete synchronization.	6. Open the HSC terminals. (normal) Turn the slug of the HSC for most stable picture in either case where HSC is shorted or normal.

Note: As the adjustments, 5. and 6., have influence on each other, they must be performed by turns repeatedly for optimum results.

Adjusting Item	Preparation	Adjustment Procedures
7. I _B of X ₈₀₃ (R ₈₀₇)	(1) Adjust the Horizontal and the Vertical Hold Control Knobs until picture is in sync. (2) Connect a Voltmeter across S ₈₀₆ .	7. Select a proper resistance value for R ₈₀₇ (2 Ω ~15 Ω) so that the Emitter Current (I _B) of X ₈₀₃ is approximately 100mA.
8. Horizontal Frequency (VR ₈₀₁)	(1) Set the Contrast and the Brightness Control Knobs to the optimum positions.	8. Adjust VR ₈₀₁ so that the numbers of diagonal bars are the same for both extreme clockwise and counter-clockwise settings of VR ₄ .
9. Focus	(1) Adjust the Horizontal and the Vertical Hold Control Knobs until picture is in sync. (2) Set the Contrast and the Brightness Control Knobs to the optimum positions.	9. Adjust VR ₈₀₁ for best focus.

IF Response Curve

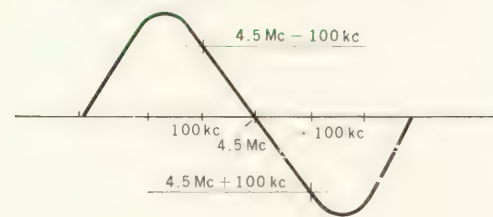


(Fig. 38)

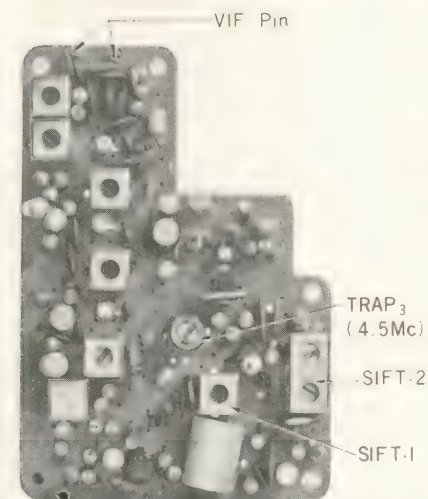


(Fig. 39)

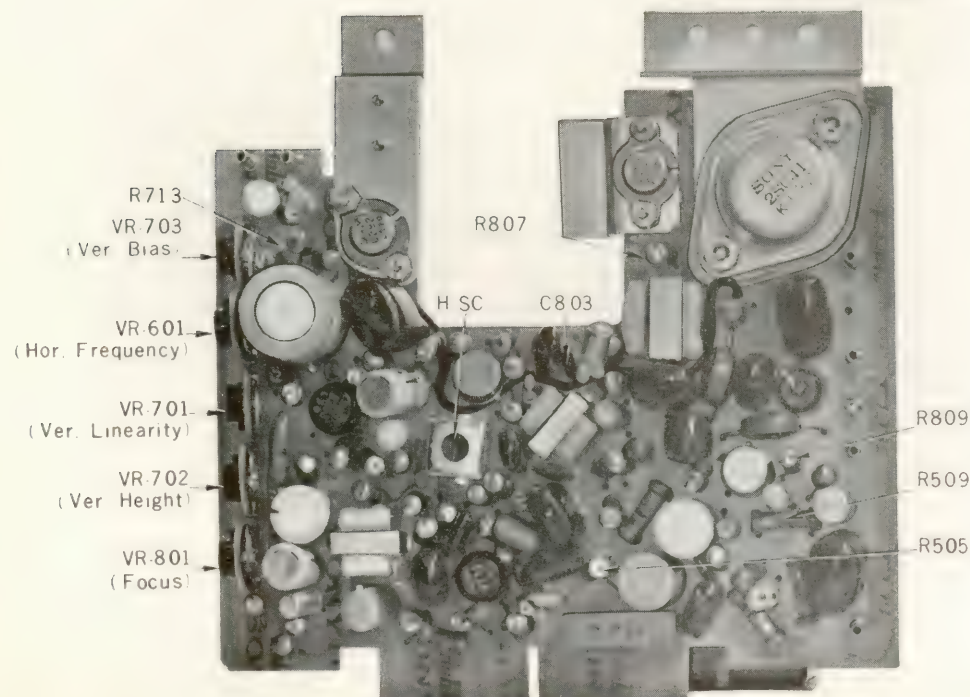
Standard S Curve



(Fig. 40)



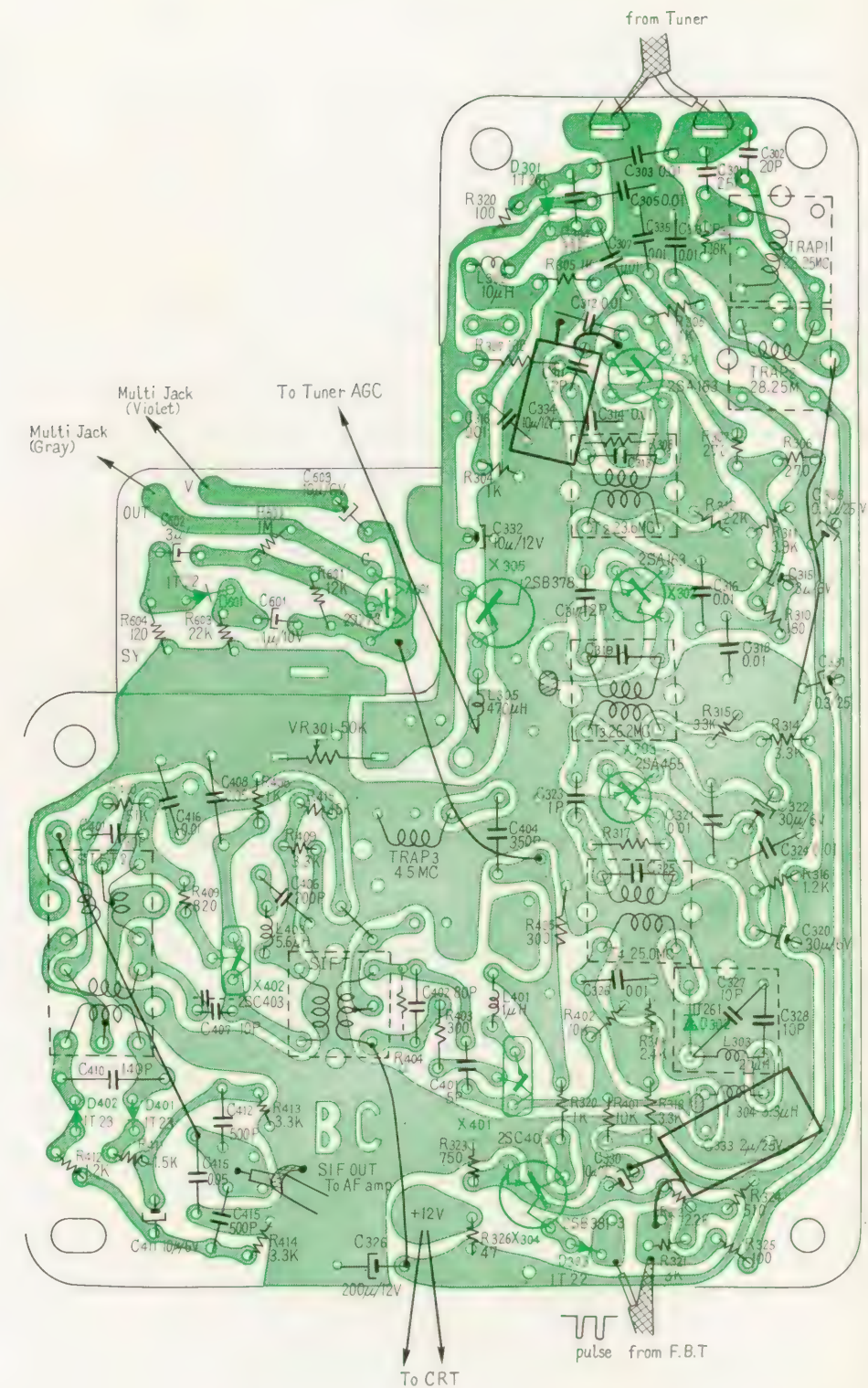
(Fig. 41)

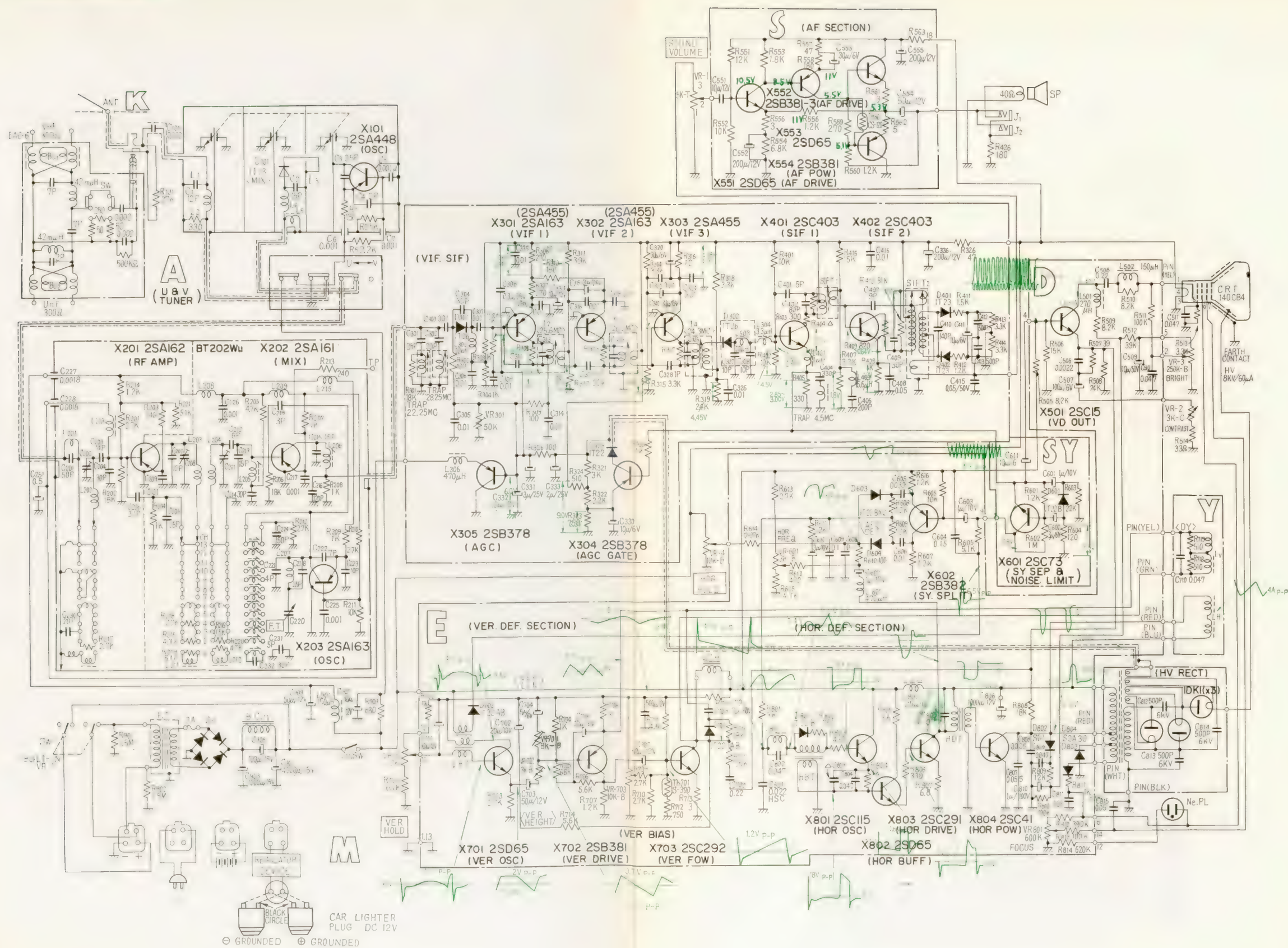


(Fig. 42)

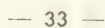
Mounting Diagram

—Printed Side—
Signal Circuit Board





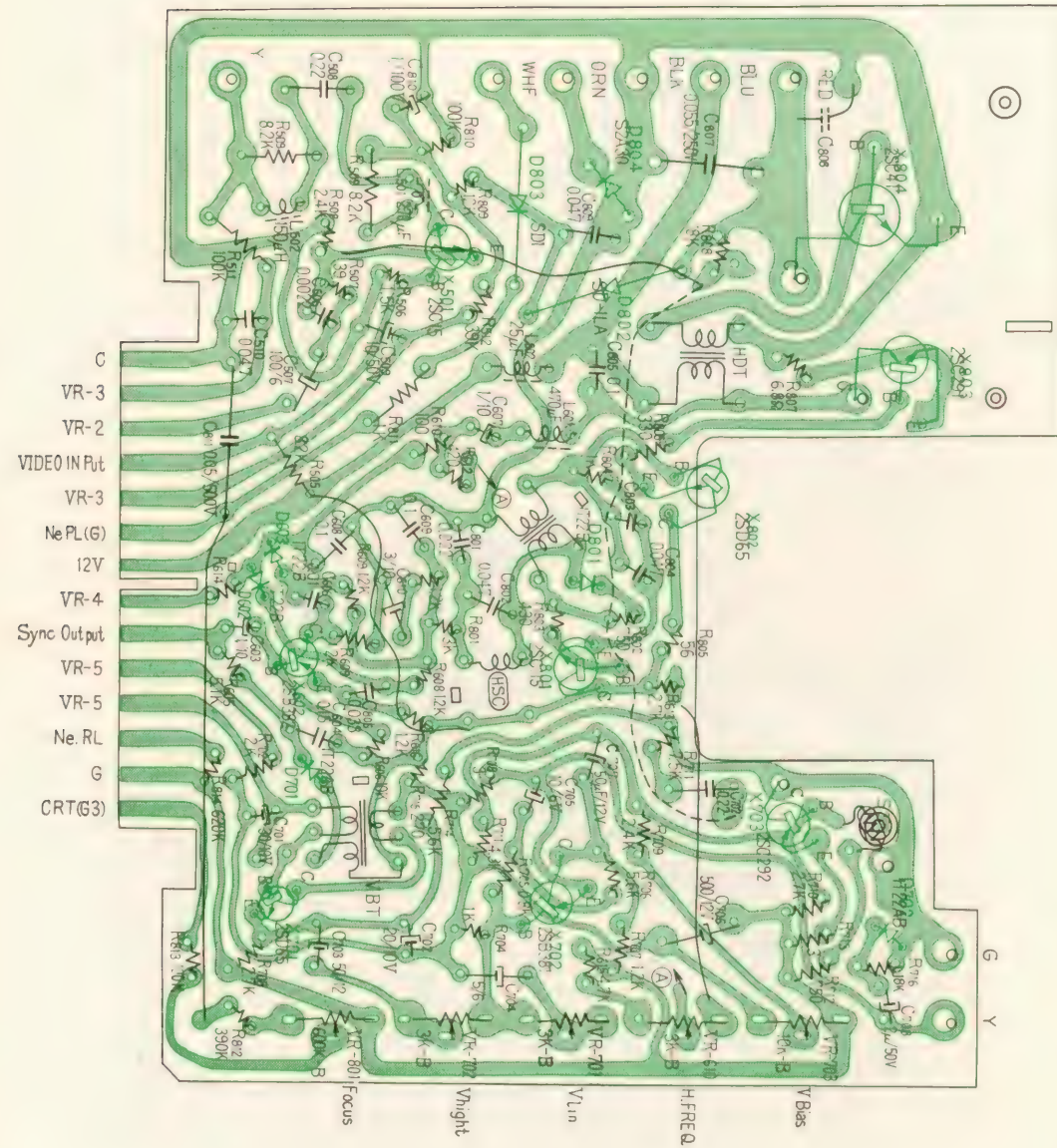
—Mounted Side—
Signal Circuit Board



Mounting Diagram

— Printed Side —

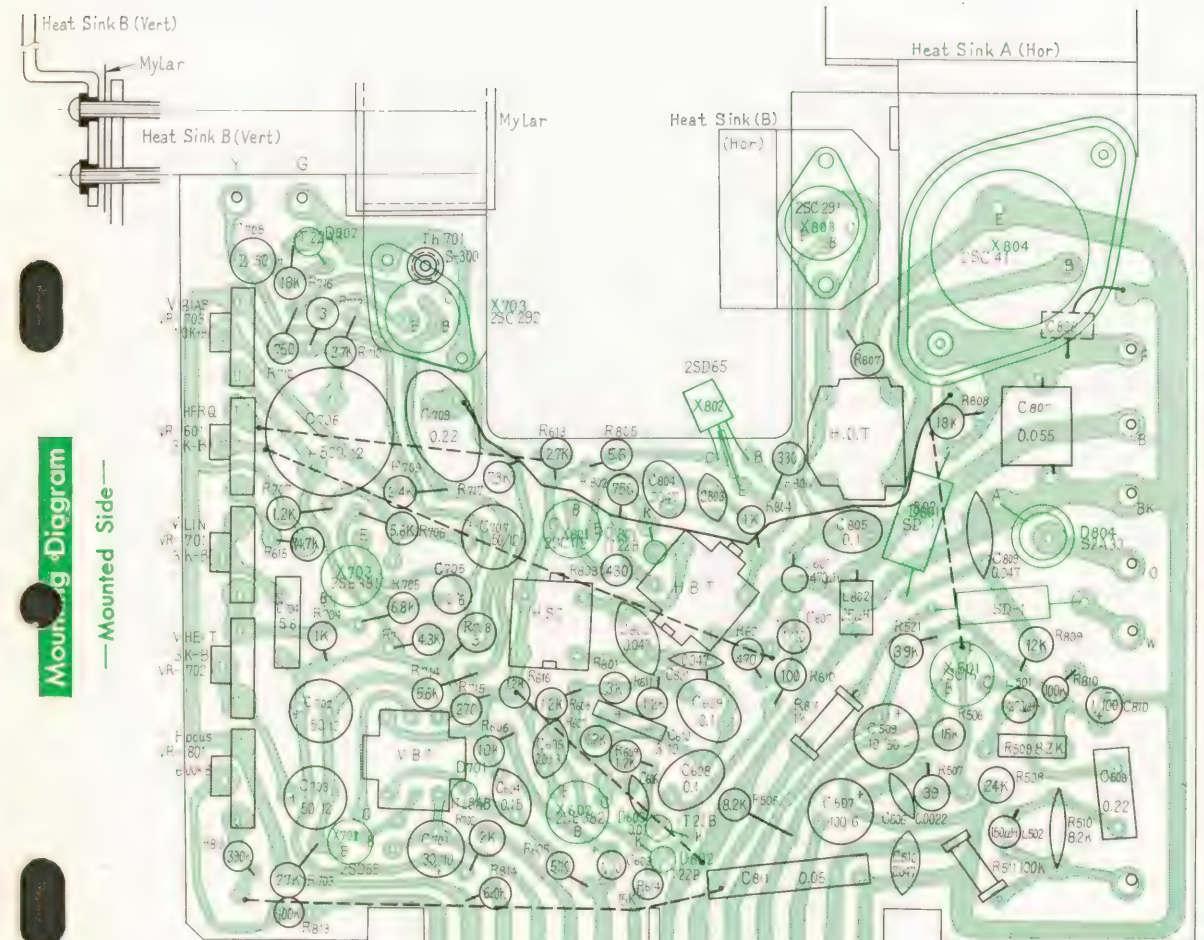
Deflection Circuit Board



Mounting Diagram

— Mounted Side —

Deflection Circuit Board



Mounting Diagram

— Mounted Side —



Jumper Wire:
PVC Wires (Yellow)
(Mounted Side)

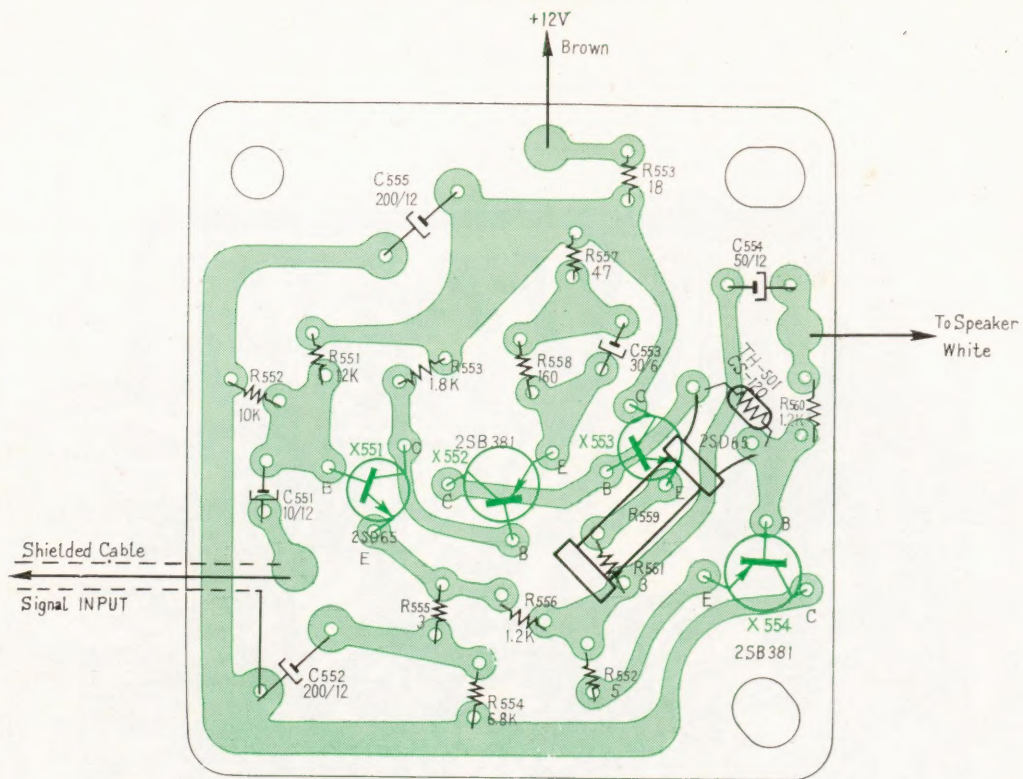
PVC Wires (Black)
(Printed Side)

Th 701 and C808 are mounted
on the Printed Side

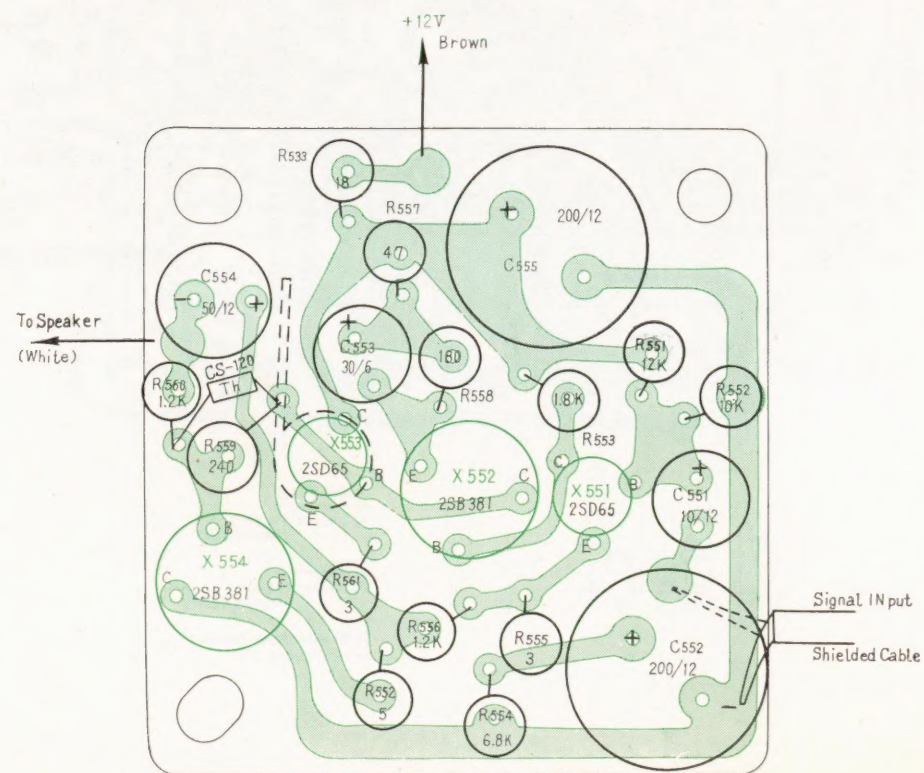
Mounting Diagram

Sound Signal Circuit Board

—Printed Side—



—Mounted Side—



Electrical Parts List (A)

Part No.	Symbol	Description	Part No.	Symbol	Description
Transistor					
X ₁		2SA448 (UHF OSC)	1-407-071-11	L ₄₀₁	Micro Inductor 1μH
X ₂₀₁		2SA161 (PF Amp)	-035-11	L ₄₀₃	" 5.6μF
X ₂₀₂		2SA161 (Mix)	1-435-008-11	VBT	Vertical Blocking Transformer
X ₂₀₃		2SA161 (VHF OSC)	-007-12	HBT	Horizontal Blocking Transformer
X ₃₀₁		2SA455 (1st VIF)	1-413-005-11	HSC	Horizontal Stabilizing Coil
X ₃₀₂		2SA455 (2nd VIF)	1-437-002-00	HDT	Horizontal Drive Transformer
X ₃₀₃		2SA455 (3rd VIF)	1-407-049-11	L ₅₀₁	Micro Inductor 270μH
X ₃₀₄		2SB381 (AGC GATE)	1-421-030-11	L ₅₀₂	" 150μH
X ₃₀₅		2SB378 (AGC)	1-407-052-11	L ₆₀₁	" 470μH
X ₄₀₁		2SC403 (1st SIF)	1-421-013-11	L ₈₀₂	" 25μH
X ₄₀₂		2SC403 (2nd SIF)	1-407-030-11	L ₉₀₁	" 150μH
X ₅₀₁		2SC15 (VD OUT)	Potentiometer		
X ₅₅₁		2SD65 (AF DRIVE)	1-221-402-13	VR ₁	Volume Control 5KΩ-T
X ₅₅₂		2SB381 (AF DRIVE)	-404-11	VR ₂	Contrast Control 3KΩ-C
X ₅₅₃		2SD65 (AF Power)	-265-11	VR ₃	Brightness Control 250KΩ-B
X ₅₅₄		2SB381 (AF Power)	-297-12	VR ₄	Horizontal Hold Control 10KΩ-B
X ₆₀₁		2SC73 (SY. SEP. & Noise Limit)	-403-11	VR ₅	Vertical Hold Control 2KΩ-B
X ₆₀₂		2SB382 (SY. Split)	-483-11	VR ₃₀₁	Automatic Gain Control 50K
X ₇₀₁		2SD65 (VER. OSC)	-355-11	VR ₆₀₁	Horizontal Frequency Control 3K-B
X ₇₀₂		2SB383 (VER. DRIVE)	-355-11	VR ₇₀₁	Vertical Linearity Control 3K-B
X ₇₀₃		2SB292 (VET. Power)	-355-11	VR ₇₀₂	Vertical Height Control 3K-B
X ₈₀₁		2SC115 (HOR. OSC)	-327-00	VR ₇₀₃	Vertical Bias Control 10KΩ-B
X ₈₀₂		2SD65 (HOR. BUFF)	-351-00	VR ₈₀₁	Focus Control 600KΩ-B
X ₈₀₃		2SC291 (HOR. DRIVE)	Resistor (* To be adjusted)		
X ₈₀₄		2SC41 (HOR. Power)	1-204-156-00	R ₁	150Ω RD 1/16L Carbon ±50%
Diode					
D ₁		1T13	1-203-977-00	R ₂	5KΩ " "
D ₃₀₁		1T261	-184-00	R ₃	2.2KΩ " "
D ₃₀₂		1T261	1-204-110-11	R ₅	330Ω RD 1/32SL "
D ₃₀₃		1T22	1-203-889-00	R ₁₀₁	27KΩ RD 1/16L "
D ₄₀₁		1T23	-460-00	R ₂₀₁	2.7KΩ " "
D ₄₀₂		1T23	-192-00	R ₂₀₂	15KΩ " "
D ₆₀₁		1T22J	1-204-101-11	R ₂₀₃	240Ω RD 1/32SL "
		1T22G	1-203-182-00	R ₂₀₄	1KΩ RD 1/16L "
D ₆₀₂		1T22AB	-185-00	R ₂₀₅	47KΩ " "
D ₆₀₃		1T22B	-193-00	R ₂₀₆	18KΩ " "
D ₆₀₄		1T22B	1-204-102-11	R ₂₀₇	1KΩ RD 1/32SL "
D ₇₀₁		1T22AB	1-203-421-00	R ₂₀₈	1KΩ RD 1/16RL "
D ₈₀₁		1T22B	-446-11	R ₂₀₉	2KΩ " "
D ₈₀₂		HFSD11A	1-204-107-11	R ₂₁₀	3.3KΩ RD 1/32SL "
D ₈₀₃		HFSD11A	-191-11	R ₂₁₁	9.1KΩ RD 1/16L "
D ₉₀₄		S2A30	-345-11	R ₂₁₂	5.1KΩ " "
			-041-11	R ₂₁₃	240Ω " "
			1-203-853-00	R ₂₁₄	1.2KΩ " "
8-691-001-00	Th ₅₅₁	CS120	1-204-104-11	R ₂₁₅	4.7KΩ RD 1/32SL "
8-690-005-00	Th ₇₀₁	S300	1-203-183-00	~216	1.5KΩ RD 1/16L "
			-460-00	R ₂₁₇	2.7KΩ " "
			1-204-103-11	R ₂₁₈	2.7KΩ RD 1/32SL "
1-403-432-11	VIFT ₁	Video IF Transformer	-345-11	R ₂₁₉	5.1KΩ RD 1/16L "
-448-11	VIFT ₂	"	-104-11	R ₂₂₀	4.7KΩ RD 1/32SL "
-449-11	VIFT ₃	"	-345-11	R ₂₂₁	5.1KΩ RD 1/16L "
-448-11	VIFT ₄	"	1-203-386-11	R ₃₀₁	18KΩ RD 1/8RL "
-420-02	DET	Video Detector Block	-357-11	R ₃₀₂	100Ω " "
-420-04	SIFT ₁	Sound IF Transformer	-367-11	R ₃₀₃	1KΩ " "
-316-11	SIFT ₂	"	-367-11	R ₃₀₄	1KΩ " "
-313-11	SIFT ₃	"	-359-11	R ₃₀₅	1KΩ " "
1-409-040-12	TRAP ₁	Video IF Trap Coil	-359-11	R ₃₀₆	270Ω " "
-041-12	TRAP ₂	"	-359-11	R ₃₀₇	270Ω " "
-036-11	TRAP ₃	Sound IF Trap Coil	-192-11	*R ₃₀₈	15KΩ RD 1/16L "
1-407-037-11	L ₃₀₁	Micro Inductor 10μH	-978-11	R ₃₀₉	100Ω " "
-068-11	L ₃₀₄	" 3.3μH	-831-11	R ₃₁₀	180Ω RD 1/8RL "
-052-11	L ₃₀₅	" 470μH	-374-11	R ₃₁₁	3.9KΩ " "

—continued—

Part No.	Symbol	Description	Part No.	Symbol	Description
1-203-387-11	R ₃₁₂	22K Ω RD $\frac{1}{8}$ RL Carbon $\pm 50\%$	1-203-405-00	R ₇₀₂	1.5K Ω RD $\frac{1}{8}$ RL Carbon
-192-11	*R ₃₁₃	15K Ω RD $\frac{1}{16}$ L "	-372-00	R ₇₀₃	2.7K Ω " "
-373-11	R ₃₁₄	3.3K Ω RD $\frac{1}{8}$ RL "	-367-00	R ₇₀₄	1K Ω " "
-373-11	R ₃₁₅	3.3K Ω " "	-381-00	R ₇₀₅	6.8K Ω " "
-368-11	R ₃₁₆	1.2K Ω RD $\frac{1}{8}$ RL Carbon	-378-00	R ₇₀₆	5.6K Ω " "
-373-11	R ₃₁₈	3.3K Ω " "	-368-00	R ₇₀₇	1.2K Ω " "
-778-11	R ₃₁₉	2.4K Ω " "	1-207-018-00	R ₇₀₈	3 Ω RD $\frac{1}{4}$ L Wire Wound Resistor
-367-11	*R ₃₂₀	1K Ω " "	1-203-778-00	R ₇₀₉	2.4K Ω RD $\frac{1}{8}$ RL Carbon
-443-11	*R ₃₂₁	3K Ω " "	-372-00	R ₇₁₀	2.7K Ω " "
-370-11	*R ₃₂₂	2.2K Ω " "	-375-00	R ₇₁₁	4.3K Ω " "
-335-11	*R ₃₂₃	750 Ω " "	-335-00	R ₇₁₂	750 Ω " "
-316-11	*R ₃₂₄	510 Ω " "	1-207-018-00	R ₇₁₃	3 Ω RW $\frac{1}{4}$ RL Wire Wound Resistor
-357-11	*R ₃₂₅	100 Ω " "			
-414-11	*R ₃₂₆	47 Ω " "	1-203-378-00	R ₇₁₄	5.6K Ω RD $\frac{1}{8}$ RL Carbon
-383-11	R ₄₀₁	10K Ω " "	-359-00	R ₇₁₅	270 Ω " "
-383-11	R ₄₀₂	10K Ω " "	-378-00	R ₇₁₆	5.6K Ω " "
-222-11	R ₄₀₃	300 Ω RD $\frac{1}{16}$ L "	-382-00	R ₇₁₇	7.5K Ω " "
-192-11	R ₄₀₄	15K Ω " "	-316-00	R ₇₁₈	510 Ω " "
-024-11	R ₄₀₅	330 Ω RD $\frac{1}{4}$ L "	-316-00	R ₇₁₉	510 Ω " "
-373-11	R ₄₀₇	3.3K Ω RD $\frac{1}{8}$ RL "	-443-00	R ₈₀₁	3.0K Ω " "
-367-11	R ₄₀₈	1K Ω " "	-335-00	R ₈₀₂	750 Ω " "
-366-11	R ₄₀₉	820 Ω " "	-760-00	R ₈₀₃	430 Ω " "
-392-11	R ₄₁₀	51K Ω " "	-367-00	R ₈₀₄	1K Ω " "
-405-11	R ₄₁₁	1.5K Ω " "	-832-00	R ₈₀₅	56 Ω " "
-368-11	R ₄₁₂	1.2K Ω " "	-360-00	R ₈₀₆	330 Ω " "
-385-11	R ₄₁₅	15K Ω " "	1-207-018-00	*R ₈₀₇	3 Ω RD $\frac{1}{4}$ L Wire Wound Resistor
-334-00	R ₄₂₆	180 Ω RD $\frac{1}{4}$ L "	1-203-386-00	R ₈₀₈	18K Ω RD $\frac{1}{8}$ RL Carbon
-384-00	*R ₅₀₅	12K Ω RD $\frac{1}{8}$ RL "	-384-00	R ₈₀₉	12K Ω " "
-385-00	R ₅₀₆	15K Ω " "	-399-00	R ₈₁₀	100K Ω " "
-467-00	R ₅₀₇	39 Ω " "	-031-00	R ₈₁₁	1K Ω RD $\frac{1}{4}$ L "
-778-00	R ₅₀₈	2.4K Ω " "	-867-00	R ₈₁₂	390K Ω RD $\frac{1}{8}$ RL "
-068-00	R ₅₀₉	8.2K Ω RD $\frac{1}{4}$ L "	-399-00	R ₈₁₃	100K Ω " "
-068-00	R ₅₁₀	8.2K Ω " "	-868-00	R ₈₁₄	620K Ω " "
-100-00	R ₅₁₁	100K Ω " "	1-201-455-00	R ₉₀₁	1.5M Ω RD $\frac{1}{2}$ L Solid
-407-00	R ₅₁₂	39K Ω RD $\frac{1}{8}$ RL "	-455-00	R ₉₀₂	1.5M Ω " "
1-201-596-00	R ₅₁₃	3.3M Ω RC $\frac{1}{2}$ L Composition	1-203-157-00	R ₉₀₃	680 Ω RD $\frac{1}{4}$ L Carbon
-128-00	R ₅₁₄	33 Ω RC $\frac{1}{8}$ RL "			
1-203-384-00	R ₅₅₁	12K Ω RD $\frac{1}{8}$ RL Carbon			Capacitor (* To be adjusted)
-383-00	R ₅₅₂	10K Ω " "	1-101-002-11	C ₁₀₁	0.002 μ F Ceramic
-369-00	R ₅₅₃	1.8K Ω " "	-722-11	C ₃₀₁	25PF "
-381-00	R ₅₅₄	6.8K Ω " "	-111-18	C ₃₀₂	20PF "
-704-00	R ₅₅₅	3 Ω " "	-004-11	C ₃₀₃	0.01 μ F "
-368-00	R ₅₅₆	1.2K Ω " "	-115-19	C ₃₀₄	30PF "
-414-00	R ₅₅₇	47 Ω " "	-004-11	C ₃₀₅	0.01 μ F "
-831-00	R ₅₅₈	180 Ω " "	-004-11	C ₃₀₆	0.01 μ F "
-357-00	R ₅₅₉	270 Ω " "	-004-11	C ₃₀₇	0.01 μ F "
-704-00	R ₅₆₁	3 Ω " "	1-121-228-11	C ₃₀₈	0.3 μ F 25WV Electrolytic
-368-00	R ₅₆₇	1.2K Ω " "	1-101-004-11	C ₃₀₉	0.01 μ F Ceramic
-384-00	R ₆₀₁	12K Ω " "	-010-11	C ₃₁₁	2PF "
-495-11	R ₆₀₂	1M Ω " "	-004-11	C ₃₁₂	0.01 μ F "
-387-00	R ₆₀₃	22K Ω " "	-004-11	C ₃₁₄	0.01 μ F "
-759-00	R ₆₀₄	120 Ω " "	1-121-178-11	C ₃₁₅	3 μ F 25WV Electrolytic
-377-00	R ₆₀₅	5.1K Ω " "	1-101-004-11	C ₃₁₆	0.01 μ F Ceramic
-368-00	R ₆₀₇	1.2K Ω " "	-010-11	C ₃₁₇	2PF "
-368-00	R ₆₀₈	1.2K Ω " "	-004-11	C ₃₁₈	0.01 μ F "
-368-00	R ₆₀₉	1.2K Ω " "	1-121-102-05	C ₃₂₀	30 μ F 6WV Electrolytic
-357-00	R ₆₁₀	100 Ω " "	1-101-004-11	C ₃₂₁	0.01 μ F Ceramic
-368-00	R ₆₁₁	1.2K Ω " "	1-121-102-05	C ₃₂₂	30 μ F 6WV Electrolytic
-561-00	R ₆₁₂	470 Ω " "	1-101-004-11	C ₃₂₄	0.01 μ F Ceramic
-372-00	R ₆₁₃	2.7K Ω " "	1-101-004-11	C ₃₂₆	0.01 μ F "
-386-00	*R ₆₁₄	18K Ω " "	-104-05	C ₃₃₀	10 μ F 6WV Electrolytic
-376-00	R ₆₁₅	4.7K Ω " "	-232-11	C ₃₃₁	3 μ F 25WV "
-368-00	R ₆₁₆	1.2K Ω " "	-118-05	C ₃₃₂	10 μ F 12WV "
-124-00	R ₇₀₁	6.2K Ω RD $\frac{1}{4}$ L "	-231-11	C ₃₃₃	2 μ F 25WV "

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Part No.	Symbol	Description	Part No.	Symbol	Description
1-101-118-05	C ₃₃₄	10 μ F 12WV Electrolytic	1-127-906-00	C ₆₀₇	1 μ F 10WV Electrolytic
-004-11	C ₃₃₅	0.01 μ F Ceramic	1-105-685-12	C ₆₀₈	0.1 μ F 50WV Mylar
1-121-121-05	C ₃₃₆	200 μ F 12WV Electrolytic	-685-12	C ₆₀₉	0.1 μ F 50WV "
-012-11	C ₄₀₁	5PF Electrolytic	1-127-908-00	C ₆₁₀	3 μ F 100WV Electrolytic
-113-18	C ₄₀₂	30PF "	1-121-104-01	C ₆₁₁	10 μ F 6WV "
1-103-041-12	C ₄₀₄	330PF Polystyrol	-110-01	C ₇₀₁	30 μ F 10WV "
1-101-017-11	C ₄₀₆	200PF Ceramic	-085-11	C ₇₀₂	20 μ F 12WV "
-157-11	C ₄₀₇	1PF "	-122-01	C ₇₀₃	50 μ F 12WV "
-007-11	C ₄₀₈	0.05 μ F "	1-127-914-11	C ₇₀₄	5 μ F 6WV "
-115-19	C ₄₀₉	30PF "	-104-15	C ₇₀₅	10 μ F 6WV "
-571-11	C ₄₁₀	140PF "	1-121-219-11	C ₇₀₆	500 μ F 12WV "
1-121-104-05	C ₄₁₁	10 μ F 6WV Electrolytic	-122-01	C ₇₀₇	50 μ F 12WV "
1-101-424-15	C ₄₁₂	500PF Ceramic	-136-01	C ₇₀₈	2 μ F 50WV "
-424-15	C ₄₁₃	500PF "	1-105-677-12	C ₇₀₉	0.022 μ F 50WV Mylar
-007-11	C ₄₁₅	0.05 μ F "	-035-00	C ₇₁₀	0.05 μ F 100WV "
-004-11	C ₄₁₆	0.01 μ F "	-677-12	C ₈₀₁	0.022 μ F 50WV "
1-105-665-12	C ₅₀₆	0.0022 μ F 50WV Mylar	-681-12	C ₈₀₂	0.047 μ F 50WV "
1-121-115-01	C ₅₀₇	100 μ F 6WV Electrolytic	-679-12	*C ₈₀₃	0.033 μ F 50WV "
1-105-291-12	C ₅₀₈	0.22 μ F 50WV Mylar	-681-12	C ₈₀₄	0.047 μ F 50WV "
1-121-143-05	C ₅₀₉	10 μ F 50WV Electrolytic	-725-12	C ₈₀₅	0.1 μ F 100WV "
1-105-721-12	C ₅₁₀	0.047 μ F 100WV Mylar	1-121-024-11	C ₈₀₆	1000 μ F 15WV Electrolytic
-721-12	C ₅₁₁	0.047 μ F 100WV "	1-105-292-11	C ₈₀₇	0.055 μ F 250WV Mylar
1-121-118-01	C ₅₅₁	10 μ F 12WV Electrolytic	-753-12	*C ₈₀₈	0.01 μ F 200WV "
-121-01	C ₅₅₂	200 μ F 12WV "	-721-12	C ₈₀₉	0.047 μ F 100WV "
-102-01	C ₅₅₃	30 μ F 6WV "	1-121-148-01	C ₈₁₀	1 μ F 100WV Electrolytic
-122-01	C ₅₅₄	50 μ F 12WV "	1-113-122-11	C ₈₁₁	0.05 μ F 500WV Mylar
-121-01	C ₅₅₅	200 μ F 12WV "	-122-11	C ₈₁₅	0.05 μ F 500WV "
1-127-906-00	C ₆₀₁	1 μ F 10WV "	1-121-024-11	C ₉₀₃	1000 μ F 15WV Electrolytic
-907-00	C ₆₀₂	3 μ F 6WV "	-023-11	C ₉₀₄	4000 μ F 15WV "
-906-00	C ₆₀₃	1 μ F 10WV "	1-119-106-00	C ₉₀₅	100 μ F 15WV "
1-105-687-12	C ₆₀₄	0.15 μ F 50WV Mylar	-042-00	C ₉₀₆	50 μ F 12WV "
-679-12	C ₆₀₅	0.033 μ F 50WV "	-044-00	C ₉₀₇	30 μ F 12WV "
-673-12	C ₆₀₆	0.01 μ F 50WV "			

Electrical Parts List (B)

Part No.	Description	Q'ty	Part No.	Description	Q'ty
	A. General				
	Cabinet & Appearance Block		1-502-100-11	Speaker	1
1-507-047-00	Twin Earphone Jack	1	1-536-085-11	1-2P Lug Terminal Board	1
-113-13	Antenna Jack	1	-107-11	1-1P Lug "	1
1-513-216-11	Charging Switch	1	-063-11	1-3P Lug Terminal Board	
	Telescopic Antenna	1		Carton & Accessories	
1-506-108-00	Connector Terminal	8	X-40056-58-1	Accessory Ass'y, including	1
1-501-108-00	Connector Terminal K	2	4-004-162-01	Polyethylene Bag for Accessory	(1)
			1-504-010-02	Earphone	(1)
			1-534-041-21	4P AC Power Cord	(1)
	Main Block			Deflection Yoke	
1-441-205-11	Power Transformer	1	1-451-003-02	Deflection Yoke Ass'y, including	1
1-421-126-11	Filter Choke Coil for Power Supply	1	1-451-004-00	Core	(1)
-106-18	Vertical Output Choke Coil	1	4-002-703-00	Yoke Cover	(1)
1-531-106-17	Selenium Rectifier	1	-704-00	Band for Yoke	(1)
1-532-039-11	Fuse	1	-705-00	Centering Magnet A	(1)
1-519-007-17	Neon Lamp	1	-706-00	" " B	(1)
1-506-063-11	4 Pole Plug	1	-707-01		
1-545-003-11	Multi Jack	1	-707-02	Centering Magnet Holding Bracket	(1)
1-526-052-06			-708-01		
-052-07	Picture Tube Socket	1	-708-01	Band for Core	(1)
1-407-030-11	Micro Inductor 150 μ H L ₉₀₁	1	-709-00	Speace for Centering Magnet	(2)

Part No.	Description	Q'ty	Part No.	Description	Q'ty
1-536-047-11	Connector Terminal E	(4)			
4-002-758-01	⊖F 2ϕ×4 for Ycke	(1)			
4-002-710-00	Terminal Board	(1)			
	High Voltage Block			C. Wires and Miscellaneous	
1-453-010-11	High Voltage Block Ass'y, including	1		(Minimum Q'ty for Ordering: Meter)	
4-002-698-11	Case	(1)		Main Block	
-699-00	Shielded Plate	(1)	7-621-078-02	P. V. C. Wires 0.16/17 Red	
-700-00	Table for Vacuum Tube	(1)	-078-03	// Orange	
4-003-660-02	High Voltage Block Holding Bracket	(1)	-078-04	// Yellow	
4-002-702-01	Shielded Case	(1)	-078-05	// Green	
1-101-034-00	Ceramic Capacitor	(3)	-078-06	// Blue	
1-536-047-11	Connector Terminal E	(3)	-078-07	// Violet	
	Screw for Case	(2)	-078-08	// Gray	
7-622-105-01	Nut 2ϕ	(2)	-078-09	// White	
4-005-537-01	High Voltage Block Caution Label	(1)	-078-00	// Black	
X-40056-59-1	Horizontal Output Transformer, including	(1)	-078-01	// Brown	
1-439-003-02	Ferrite Core V-36R	(1)	7-611-031-61	Tine Plated Copper Wire 0.6ϕ	
1-526-112-11	Anode Connector, including	(1)		Braided Wire 16/14/0.08	
4-005-613-01	Anode Connector Cover	(1)	7-613-010-21	P. V. C. Shielded Wire UL # 1185	
-614-01	Spring for Anode Connector	(1)		Co-axial Cable 0.8D2V Black	
	Deflection Block		7-631-102-04	Spaghetti Tube 1ϕ Yellow	
1-538-162-22	Deflection Printed Circuit Board	1	7-632-106-09	Vinyle Tube (transparent) 1.7ϕ	
	Video & Sound Signal Block			// 4ϕ	
1-538-308-11	Signal Printed Circuit Board	1		// 8ϕ	
-309-11	Sound Signal Printed Circuit Board	1		Vinyle Tube (Back) 4ϕ	
	Synch. Separation Circuit			// 8ϕ	
1-538-300-12	Synch. Separation Printed Circuit Board	1		High Voltage Block & Deflection Block	
	B. Tube		1-902-037-11	P.E.—P.V.C. Wire 12/0.18	
73110510	Picture Tube 140 CB4	1	7-632-110-09	Transparent Vinyle Tube I.D. 3.5ϕ	
1-525-039-00	High Voltage Rectifier Tube	3		// O.D. 4.0ϕ	
				Deflection Block	
			7-612-077-04	P. V. C. Wires 1/0.65/1.6 Yellow	
			-079-10	// 11/0.16/1.45 Black	
				Video & Sound Signal Block	
			7-612-078-00	P. V. C. Wire 17/0.16 Black	
			1-507-109-00	Ccnector Tip K	

Part No.	Description	Q'ty	Part No.	Description	Q'ty
A. General			1-502-100-11	Speaker	1
Cabinet & Appearance Block			1-536-085-11	1-2P Lug Terminal Board	1
1-507-047-00	Twin Earphone Jack	1	-107-11	1-1P Lug //	1
-113-13	Antenna Jack	1	-063-11	1-3P Lug Terminal Board	
1-513-216-11	Charging Switch	1	Carton & Accessories		
	Telescopic Antenna	1	X-40056-58-1	Accessory Ass'y, including	1
1-506-108-00	Connector Terminal	8	4-004-162-01	Polyethylene Bag for Accessory	(1)
1-501-108-00	Connector Terminal K	2	1-504-010-02	Earphone	(1)
			1-534-041-21	4P AC Power Cord	(1)
Main Block			Deflection Yoke		
1-441-205-11	Power Transformer	1	1-451-003-02	Deflection Ycke Ass'y, including	1
1-421-126-11	Eilfer Choke Coil for Power Supply	1	1-451-004-00	Core	(1)
-106-18	Vertical Output Choke Coil	1	4-002-703-00	Ycke Cover	(1)
1-531-106-17	Selenium Rectifier	1	-704-00	Band for Ycke	(1)
1-532-039-11	Fuse	1	-705-00	Centering Magnet A	(1)
1-519-007-17	Neon Lamp	1	-706-00	// // B	(1)
1-506-063-11	4 Pole Plug	1	-707-01	Centering Magnet Holding Bracket	(1)
1-545-003-11	Multi Jack	1	-707-02		
1-526-052-06	Picture Tube Socket	1	-708-01	Band for Core	(1)
-052-07			-708-01		
1-407-030-11	Micro Inductor 150 μ H L_{90}	1	-709-00	Speace for Centering Magnet	(2)

Part No.	Description	Q'ty	Part No.	Description	Q'ty
Y-40036-03-1	Tuner Block		X-40046-54-1	Deflection Block	
X-40054-51-1	Video & Sound Signal Block		X-40056-55-1	High Voltage Block	
X-40056-52-1	Sound Block		1-451-003-02	Deflection Ycke	
X-40056-53-1	Synchro. Separation Block				

Part No.	Description	Q'ty	Part No.	Description	Q'ty
A. General			Main Block		
4-003-607-01	Cabinet (Front)	1	4-005-603-01	Chassis	1
-608-01	Antenna Bushing (Black)	1	4-003-621-02	Multi-Jack Mounting Bracket	1
-608-11	" (White)	1	-4005-604-01	L. Shaped Bracket	1
-609-01	Mask (Black)	1	-605-01	Tuner Holding Plate	1
-609-11	" (White)	1	-606-01	Insulation Plate	1
-610-01	Picture Tube Mounting Spacer	2	-607-01	Capacitor Clamper (Small)	1
4-002-781-00	Dust Proof Rubber Band	1	-608-01	" (Large)	1
-811-00	Picture Tube Protector	1	4-003-626-02	Speaker Mounting Bracket	1
X-40036-03-2	Picture Tube Mounting Bracket Assembly, including	1	0-214-123-00	Speaker Mounting Cushion	4
4-003-611-02	Picture Tube Mounting Bracket	(2)	4-002-806-03	Speaker Mounting Screw	4
4-002-778-00	Picture Tube Mounting Ring	(1)	-646-01	Earphone Label	1
-780-00	Picture Tube Grounding Spring	(1)	4-003-657-01	Signal Circuit Board Mounting Washer	2
7-623-505-01	Lug 2φ	(1)	-627-01	Insulation Sheet for Deflection Circuit Board	1
4-005-601-01	Rear Cabinet (Black)	1	-625-01	Variable Resistor Mounting Bracket	1
-601-11	" (White)	1	Circuit Board Block		
4-002-730-00	Rear Foot	2	4-003-601-01	Heat Sink for Hor. Power Tr. A	1
X-40056-02-1	Carrying Handle Assembly, including	1	4-002-681-01	" B	1
4-003-010-01	Carrying Handle	(1)	4-003-602-01	Heat Sink for Ver Power Tr. A	1
-011-02	Carrying Handle Reinforcement	(1)	-603-01	" B	1
-012-22	Carrying Handle Side Piece	(2)	-114-02	Insulator	1
-013-01	Carrying Handle P.V.C. Sheet	(1)		Insulator for Heat Sink	2
4-003-619-03	Charging Switch Label	1		Block Separation Circuit Board Mounting Bracket	1
-346-01	Antenna Clamper (Black)	1		Heat Sink for Tr. #206	1
-346-31	" (White)	1	Accessories & Packing Materials		
X-40026-06-2	Table Stand Assembly, including (Black)	1	4-005-609-01	Styro-Foam Cushion (Front)	1
4-002-623-02	Table Stand	(1)	-610-01	" (Rear)	1
-732-02	Friction Spring	(2)	-611-01	Packing Carton (Black)	1
-788-00	Table Stand Cushion	(1)	-611-11	" (White)	1
-789-01	Table Stand Mounting Screw	(2)	-612-01	Packing Carton for 2 sets (Black)	1/2
-790-00	Stand Mounting Bracket (Left)	(1)	-612-11	" (White)	1
-791-00	" (Right)	(1)	4-002-669-00	Polyethylene Bag	1
4-003-014-01	Table Stand Cushion	(1)	-839-00	IBM Card	1
-001-01	Stand Cushion Mounting Screw	(2)	X-44900-02-1	Polishing Cloth in Polyethylene Bag	1
7-622-307-02	Nut 2.6φ for Stand Mounting Bracket	(3)	4-490-012-00	Polyethylene Bag	(1)
X-40030-07-1	Table Stand Assembly, including	1	4-002-849-01	Polishing Cloth	(1)
4-002-623-02	Table Stand	(1)	X-40056-04-1	Warranty Card Assembly, including	1
-732-02	Friction Spring	(1)	4-494-109-10	Warranty Card	(1)
-781-01	Stand Mounting Screw	(2)	-100-10	Transistor Warranty Card	(1)
-790-01	Stand Mounting Bracket (Left)	(1)	4-002-826-02	Polyethylene Bag	(1)
-791-10	" (Right)	(1)	4-495-109-10	Instruction Manual	1
4-003-014-01	Table Stand Cushion	(1)	X-40056-05-1	Card Assembly, including	1
-001-01	Stand Cushion Mounting Screw	(2)	4-003-032-01	Inspection Card	(1)
7-622-307-02	Nut 2.6φ for Stand Mounting Bracket	(3)	4-498-109-10	Adjustment Card	(1)
X-40036-10-2	Front Panel Assembly, including (Black)	1	4-493-104-10	Caution Card	(1)
4-003-629-02	Front Panel	(1)	B. Screw & Washer		
-630-01	UHF Tuning Scale Cover	(1)	(Minimum Q'ty for Ordering: 100 pcs.)		
X-40056-06-1	Front Panel Assembly, including (White)	1	Cabinet & Appearance Items		
4-003-629-22	Front Panel	(1)	Screw		
-630-01	UHF Tuning Scale Cover	(1)	7-621-259-33	⊕P 2.6φ×5 (for Mask)	4
X-40032-10-2	Channel Selector Knob Assembly	1	-561-43	⊕K 3φ×6 (for Ant. Bushing)	1
X-40036-11-1	Volume Control Knob Assembly	1		(for Antenna)	1
X-40032-12-1	Fine Tuning Knob Assembly	1		(for Chassis)	4
4-003-019-03	Control Knob	4	7-621-262-62	⊕P 3φ×30 (for Picture Tube Mounting)	1
-632-01	" SONY " Badge	1	-561-53	⊕K 3φ×8 (")	2
4-005-602-01	Specification Label	1	-559-52		
4-003-664-01	Control Knob Spacer	1	-559-58	⊕K 2.6φ×8 (for Antenna Clamper)	1
4-004-143-01	Serial No. Label	1			

Part No.	Description	Q'ty	Part No.	Description	Q'ty
7-621-259-38	⊕K 2.6φ×5 (for Table Stand)	4	7-621-722-42	⊕P 3φ×6 (for Capacitor Clamp Small)	1
-259-39	⊕P 4φ×6 (for Carrying Handle)	2		(for Variable Resistor Mounting Bracket)	2
-268-42	⊕K 2φ×4 (for " SONY " Badge)	2	7-621-721-73	⊕K 2.6×6 (for Deflection Circuit Board)	3
-555-29	⊕B 2.6φ×12 (for Front Panel)	3		Spring Washer	
-770-48	⊕R 3φ×6 (for Cabinet)	4	7-623-410-05	4φ (for Multi-Jack)	1
-261-49				(for L Shaped Bracket)	1
				(for Tuner)	2
				(for High Voltage Block)	1
				4φ (for Power Transformer)	1
				2.6φ (for Earphone Jack)	2
				Washer	
				3φ (for Selenium Rectifier)	1
				3φ (for Choke Coil)	2
				Nut	
				2.6φ (for Earphone-Jack)	2
				3φ (for Speaker)	4
				Circuit Board Block	
				Screw	
				⊕P 3φ×8 (for Transistor)	2
				⊕P 2φ×10 (for Transistor)	2
				⊕P 2φ×8 (for Transistor)	2
				⊕P 2φ×6 (for Heat Sink)	2
				Washer	
				3φ (for Transistor)	2
				Nut	
				2φ (for Transistor)	2
				3φ (")	4
				Self Tapping Screw	
				⊕P 3φ×6 (for Terminal Lug)	2

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